



CCTV SYSTEM PRODUCT GUIDE

08-09

Why choose Computar lenses and Ganz CCTV products?

There's something rather special about Computar lenses and Ganz CCTV products. Together, they are the perfect combination.

With Computar and Ganz, you can be sure of:

- Performance that often exceeds specifications
- Exceptional reliability backed up by three years' warranty
- A wide choice, where you'll find a product to suit most applications
- Consistency, innovation, and compatibility between products
- World-leading technology from a worldwide manufacturer

Take the thermal device in the new Ganz range – which can detect a human up to 1 km away, even at night. Or the Ganz illuminator, where you change the field of illumination to match the field of view of the camera. Or the Ganz DVR that has such a good memory about images that it can automatically identify if anything has been taken or moved.

All these make use of the technological skill and precision that goes into Computar lenses, to deliver the highest quality images.

No wonder Ganz products, with Computar lenses, are so popular.

This catalogue gives you the whole range of products available. Whatever the product, you'll be able to recommend and install it with complete confidence.



Geoff Bowers

Director

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Hardware

IR 30i SERIES

Short- to Medium-range Integrated IR Illuminators



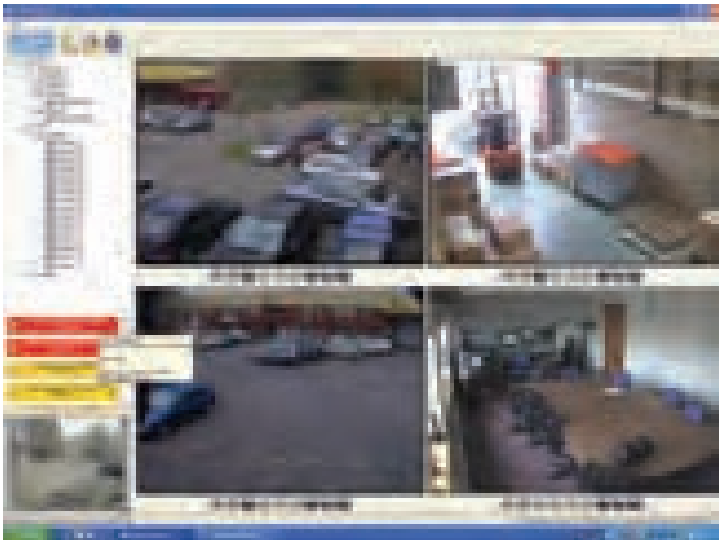
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IP Media &
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Lenses

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Control Room

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Lenses

HIGH RES LENSES

Megapixel & Factory Automation (Security & Image Processing)



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IP Media & Transmission

Radar Detection

ANPR

Accessories

ASPHERICAL IR VARIFOCAL LENSES

1/2" & 1/3" Day/Night Varifocal lenses



- True 24-hour surveillance
- Suitable for all super high resolution cameras
- No focus shift between day and night
- Glass optics for high resolution images
- Suitable for all day/night, colour & monochrome cameras
- No shut-down in bright conditions
- Spot filter on all auto iris versions
- Slip ring for easy installation
- Wide F-stop range for perfect pictures from low light to extreme sunshine
- Easy adjustment
- Locking screws

computer aspherical IR varifocal lenses, commonly known as day/night lenses, are the ideal solution for low light and/or where infrared illumination is used. These lenses have been specifically designed to give the highest quality images both in daytime and also through the hours of darkness without any of the problems associated with standard varifocal lenses.

computer aspherical IR varifocal lenses use the very latest techniques in lens design, which allows the lens to remain in focus in daytime and night-time, and under infrared illumination. The result is higher quality and crystal-clear images 24 hours a day. Suitable for all day/night, colour and monochrome cameras including high and super high resolution. Ideal lenses for true day/night surveillance.

These lenses are very easy to install and set up. Just adjust to the angle of view you require, and focus up your image. No specialised training required.

FOCAL LENGTH	MANUAL (M)	DIRECT DRIVE (DD)	VIDEO DRIVE (VD)	F STOP	ANGLE OF VIEW (HORIZONTAL)	FORMAT	DIMENSIONS (øxHxW)mm	WEIGHT*
2.9-8.2mm	T3Z2910CS-IR	TG3Z2910FCS-IR		1.0-360	98.3-35.2°	1/3"	33.5x46.6x44.3	47g
2.8-12mm	T4Z2813CS-IR	TG4Z2813FCS-IR	TG4Z2813AFCS-IR	1.3-360	98.2-23.8°	1/3"	37.5x48x56	72g
3.5-10.5mm	T3Z3510CS-IR	TG3Z3510FCS-IR	TG3Z3510AFCS-IR	1.0-360	81.6-27.2°	1/3"	38.5x48x48.8	70g
4.5-12.5mm	H3Z4512CS-IR	HG3Z4512FCS-IR	HG3Z4512AFCS-IR	1.2-360	81.6-30.0°	1/2"	47.5x48x48.8	73g
8.5-40mm	T5Z8513CS-IR	TG5Z8513FCS-IR	TG5Z8513AFCS-IR	1.3-360	33.5-7.1°	1/3"	41.7x57.5x62.9	126g



All DD lenses are supplied with 9cm short leads as standard.
A long lead (31cm) is available, part code /31.

*Weight and dimensions of the lenses above are based on the heaviest lens in the series.
Please refer to the **computer** lens catalogue for actual weight information.

ASPHERICAL VARIFOCAI LENSES

1/3" Varifocal Lenses

Lenses

- Suitable for all super high resolution cameras
- Glass optics for high resolution images
- Suitable for all colour and monochrome cameras
- No shut-down in bright conditions
- Spot filter on all auto iris versions
- Slip ring for easy installation
- Wide F-stop range for perfect pictures from low light to extreme sunshine
- Easy adjustment
- Locking screws



computar aspherical varifocal lenses are the ideal solution for low light applications, as they allow a greater amount of light through the lens than traditional varifocal lenses. The end result is higher quality and crystal-clear images. Suitable for all types of cameras including standard, high and super high resolution. This range of lenses use the very latest in lens design and are very easy to install. Just adjust to the angle of view you require, and focus up your image. No specialised training required.

All **computar** aspherical varifocal lenses are manufactured with glass optics and a wide F-stop for superior sensitivity.

FOCAL LENGTH	MANUAL (M)	DIRECT DRIVE (DD)	VIDEO DRIVE (VD)	F STOP	ANGLE OF VIEW (HORIZONTAL)	FORMAT	DIMENSIONS (øxHxW)mm	WEIGHT*
2.3-6mm	T3Z2312CS	TG3Z2312FCS		1.2-360	114.8-48.2°	1/3"	38.5x48x48.8	78g
2.9-8.2mm	T3Z2910CS	TG3Z2910FCS	TG3Z2910AFCS	1.0-360	98.3-35.2°	1/3"	33.5x46.6x44.3	47g
3.5-10.5mm	T3Z3510CS	TG3Z3510FCS	TG3Z3510AFCS	1.0-360	81.7-27.2°	1/3"	38.5x48x48.8	70g
5-50mm	T10Z0513CS	TG10Z0513FCS	TG10Z0513AFCS	1.3-360	51.8-5.6°	1/3"	41.7x57.5x57.7	145g

All DD lenses are supplied with 9cm short leads as standard.
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Please refer to the **computar** lens catalogue for actual weight information.



STANDARD VARIFOCAL LENSES

1/2" & 1/3" Varifocal Lenses



- Suitable for all super high resolution cameras
- Glass optics for high resolution images
- Suitable for all colour and monochrome cameras
- No shut-down in bright conditions
- Spot filter on all auto iris versions
- Slip ring adjustments for easy of installation
- Wide F-stop range for perfect pictures from low light to extreme sunshine
- Locking screws

computar varifocal lenses are the ideal solution for almost all installations. They are very easily adjustable and therefore easy to install, requiring little or no knowledge and training, making them an ideal choice whatever your level of experience.

The lenses offer you three different options of iris control: manual iris (typically for indoor applications), auto iris direct drive and auto iris video drive (typically for external applications).

All **computar** varifocal lenses offer the maximum flexibility as they can be adjusted to match the exact scene required by the end user. Once obtained, the view can be fixed by means of the lens locking screws. **computar** offer one of the largest ranges of varifocal lenses from a 1.8mm (almost fish eye) to 50mm for close-up views.

All auto iris direct drive lenses are supplied pre-plugged on either a 9cm or 31cm lead. No auto iris video drive lenses are pre-plugged.

FOCAL LENGTH	MANUAL (M)	DIRECT DRIVE (DD)	VIDEO DRIVE (VD)	F STOP	ANGLE OF VIEW (HORIZONTAL)	FORMAT	DIMENSIONS (øxHxW)mm	WEIGHT*
1.8-3.6mm	T2Z1816CS	TG2Z1816FCS	TG2Z1816AFCS	1.6-360	144.2-79.4°	1/3"	37.4x42.6x51	83g
3.5-8.0mm	T2Z3514CS	TG2Z3514FCS	TG2Z3514AFCS	1.4-360	77.5-35.4°	1/3"	33.5x42.6x43.5	53g
4.5-10mm	H2Z4516CS	HG2Z4516FCS	HG2Z4516AFCS	1.6-360	81.8-38.2°	1/2"	33.5x42.6x43.5	55g
10.0-30mm	H3Z1014CS	HG3Z1014FCS	HG3Z1014AFCS	1.4-360	35.8-12.5°	1/2"	41.7x57.5x57.7	125g

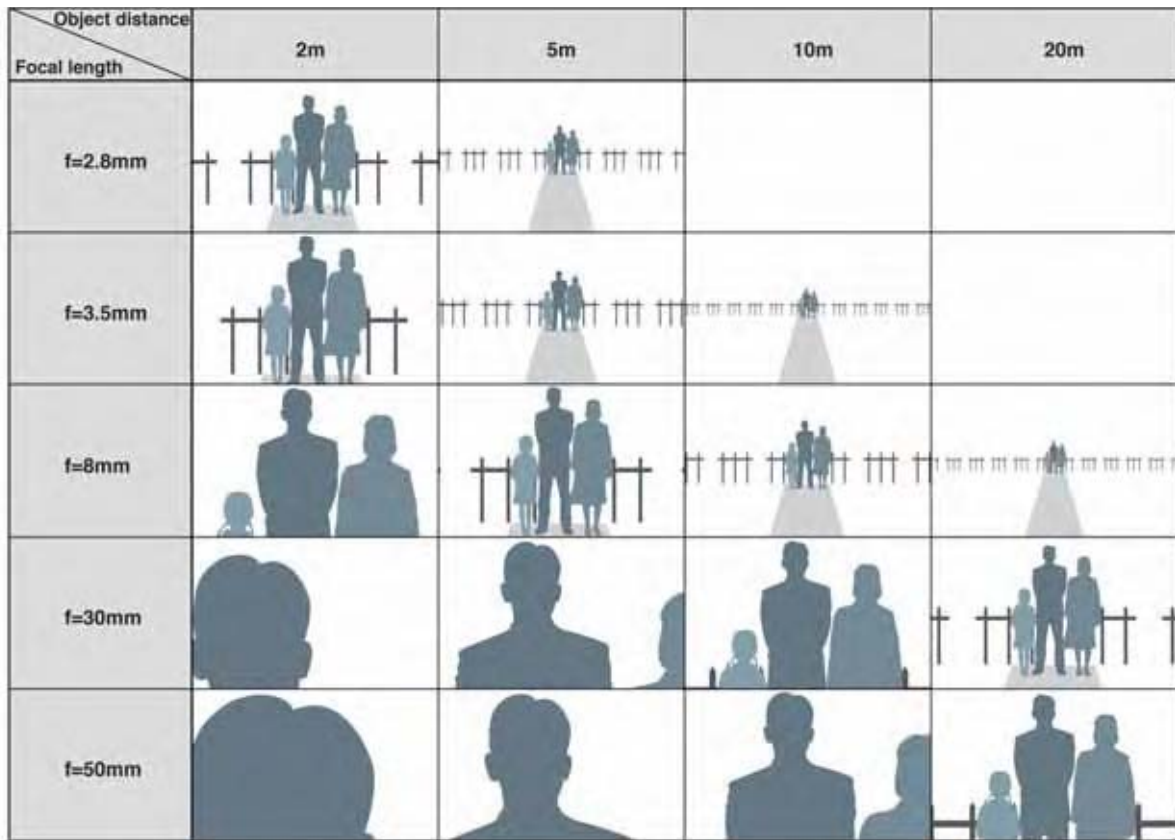
All DD lenses are supplied with 9cm short leads as standard.
A long lead (31cm) is available, part code /31.

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Please refer to the **computar** lens catalogue for actual weight information.



COMPARISON OF MONITORING IMAGES

Images on 1/3" camera

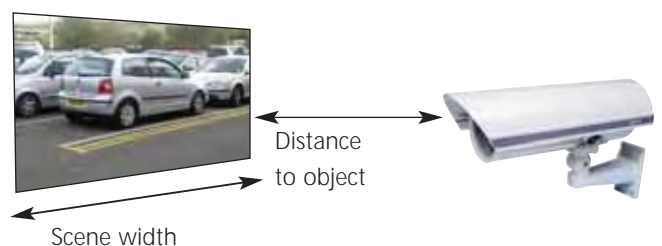


VARIFOCA LENS DISTANCE SELECTOR

		Scene Width (m)																		
Object Distance (m)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	15	-	36.0	24.0	18.0	14.4	12.0	10.3	9.0	8.0	7.2	6.5	6.0	5.5	5.1	4.8	4.5	4.2	4.0	3.8
	14	-	33.6	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.6	5.2	4.8	4.5	4.2	4.0	3.7	3.5
	13	-	31.2	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.3
	12	-	28.8	19.2	14.4	11.5	9.6	8.2	7.2	6.4	5.8	5.2	4.8	4.4	4.1	3.8	3.6	3.4	3.2	3.0
	11	52.8	26.4	17.6	13.2	10.6	8.8	7.5	6.6	5.9	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	-
	10	48.0	24.0	16.0	12.0	9.6	8.0	6.9	6.0	5.3	4.8	4.4	4.0	3.7	3.4	3.2	3.0	2.8	-	-
	9	43.2	21.6	14.4	10.8	8.6	7.2	6.2	5.4	4.8	4.3	3.9	3.6	3.3	3.1	2.9	-	-	-	-
	8	38.4	19.2	12.8	9.6	7.7	6.4	5.5	4.8	4.3	3.8	3.5	3.2	3.0	-	-	-	-	-	-
	7	33.6	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.4	3.1	2.8	-	-	-	-	-	-	-
6	28.8	14.4	9.6	7.2	5.8	4.8	4.1	3.6	3.2	2.9	-	-	-	-	-	-	-	-	-	
5	24.0	12.0	8.0	6.0	4.8	4.0	3.4	3.0	-	-	-	-	-	-	-	-	-	-	-	
4	19.2	9.6	6.4	4.8	3.8	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	14.4	7.2	4.8	3.6	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9.6	4.8	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Selecting a lens

- 1) Determine the scene width (actual size of area & view required)
 - 2) Calculate the distance between the scene and the camera
 - 3) Read off the focal length of lens required from the chart
- Example: Scene width = 7m, Object distance = 7m
Focal length of lens required = 4.8mm



HIGH RESOLUTION LENSES

Megapixel & Factory Automation (Security & Image Processing)

- Suitable for all megapixel cameras
- Suitable for all super high resolution cameras
- High quality glass optics for optimum quality
- High resolution and contrast
- Locking screws on focus and iris rings
- Robust enclosure
- Larger aperture
- Low distortions
- Varifocal version

computar megapixel lenses are designed to capture the higher resolution of megapixel and super high resolution cameras, providing a high contrast and sharp picture. The wide aperture (F1.4) design of the megapixel lenses helps to achieve clear images under low light levels. These lenses also provide excellent image recognition accuracy by reducing distortion and improving illumination uniformity over the camera sensor. Another important feature is the robust enclosure that is resistant to vibrations and shocks, making it ideal for use in video imaging equipment and machine vision applications.

FOCAL LENGTH (mm)	MANUAL	DIRECT DRIVE	F STOP	ANGLE OF VIEW (H)	FORMAT	MOUNT	DIMENSIONS (øxH) & (øxHxD)	WEIGHT
0.084-0.84	MLX10X*		5.6-32C	18-3.6°	1/2"	C or CS	ø48X98.5	233g
0.3-1.0x	MLM3XMP*		4.5-22C	11.8-2.78°	2/3"	C	ø36.5-79.5	150g
5	H0514-MP		1.4-16C	65.5°	1/2"	C	ø44.5x45.5	107g
8	M0814-MP		1.4-16C	56.3°	2/3"	C	ø36.5x79.5	70g
12	M1214-MP		1.4-16C	40.4°	2/3"	C	ø33.5x28.2	65g
16	M1614-MP		1.4-16C	30.8°	2/3"	C	ø33.5x28.2	65g
25	M2514-MP		1.4-16C	20.0°	2/3"	C	ø33.5x36	75g
50	M5018-MP		1.8-16C	10.5°	2/3"	C	ø33.5x38.1	90g
4-8	H2Z0414-MP	HG2Z0414FC-MP	1.4-16C	90.4-47.0°	1/2"	C	ø38.5x48x48.8	75g
55	TEC-M55**		2.8-32C	9.2°	2/3"	C	ø53X92.9	320g

*shows maximum magnification. **TEC M55 has 0.75x and 2x rear adapters as optional

All DD lenses are supplied with 9cm short leads as standard.
A long lead (31cm) is available, part code /31.

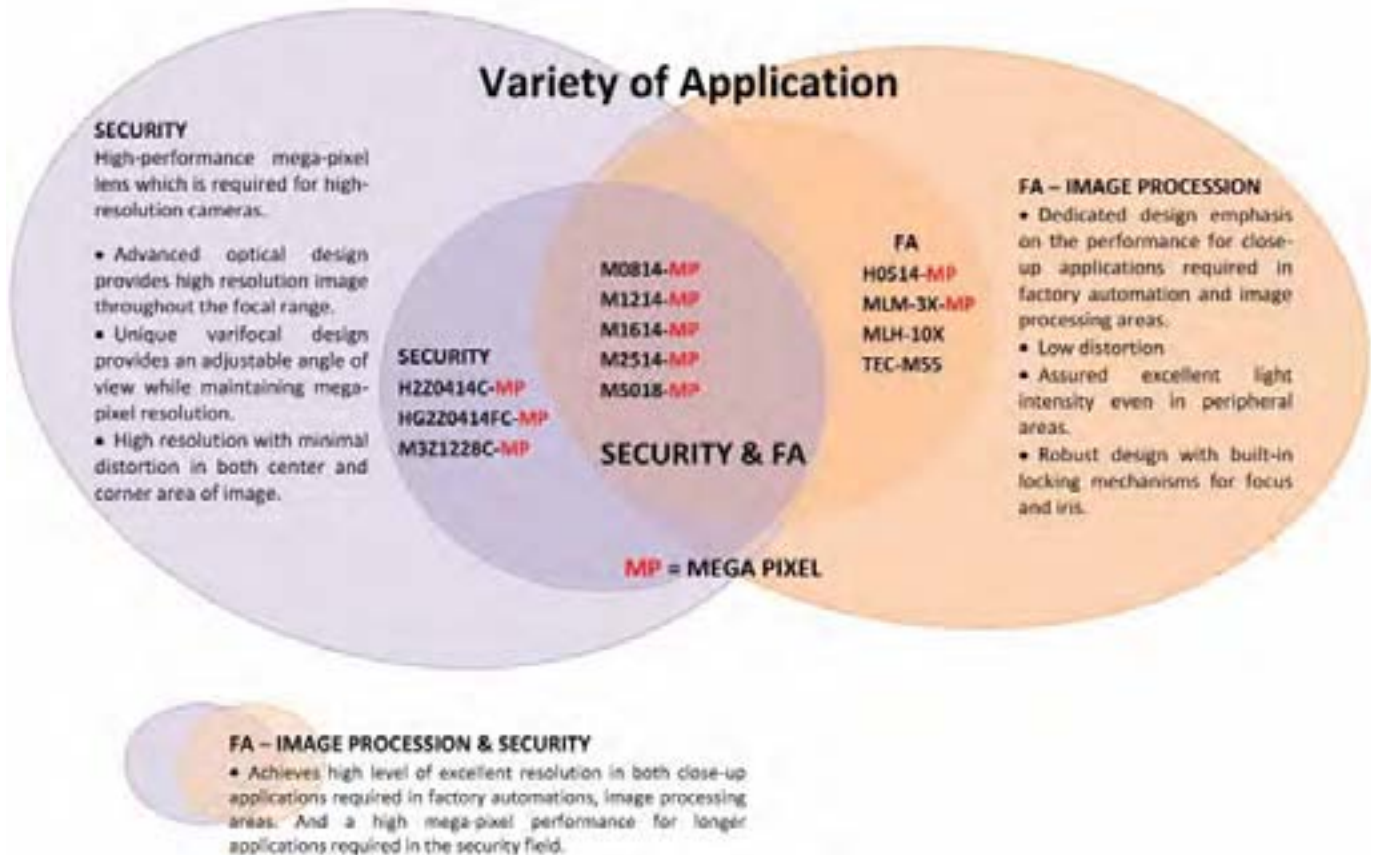
*Weight and dimensions of the lenses above are based on the heaviest lens in the series.
Please refer to the **computar** lens catalogue for actual weight information.



HIGH RESOLUTION LENSES

Megapixel & Factory Automation (Security & Image Processing)

Lenses



Ordering Codes:

MLX10X CS	FA Megapixel Macro Manual Zoom Lens CS Mount
MLX10X C	FA Megapixel Macro Manual Zoom Lens C Mount
MLM3X-MP	FA Megapixel Macro Manual Zoom Lens C Mount
M0514MP	5mm FA Megapixel Manual Iris Fixed Focus Lens
H2Z0414-MP	4-8mm Varifocal Megapixel Manual Lens
H2Z0414FC-MP	4-8mm Varifocal Megapixel Direct Drive Auto Iris Lens
M0814MP	8mm Megapixel Manual Iris Fixed Focus Lens
M1214MP	12mm Megapixel Manual Iris Fixed Focus Lens
M1614MP	16mm Megapixel Manual Iris Fixed Focus Lens
M2514MP	12mm Megapixel Manual Iris Fixed Focus Lens
M5018MP	50mm Megapixel Manual Iris Fixed Focus Lens
TEC-M55**	55mm Telecentric FA Manual Iris Fixed Focus Lens
M55-0.75x	0.75x Rear Converter for TEC M55
M55-2.0x	2.0x Rear Converter for TEC M55

ZOOM LENSES

Manual & Motorised Zoom Lenses

Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories



- Suitable for all super high resolution cameras
- Extreme long range up to 30x zoom ratio (10:300mm)
- Suitable for all colour and monochrome cameras
- Glass optics for high resolution images
- IR corrected range
- Wide F-range for perfect pictures from low light to extreme sunshine
- Choice of options from 6x to 34x zoom ratio
- 1/3" & 1/2" formats
- Motorised and manual versions available

computar motorised zoom lenses are your ideal choice when used in conjunction with pan & tilt camera types (movable cameras). This type of system is controlled remotely by an operator adjusting the picture by zooming in and out on the image. Zooming in will give the operator greater close-up images for higher identification; zooming out will give the operator a more general view.

All **computar** zoom lenses are manufactured using the latest advances in lens technology. Using the highest quality components in conjunction with superior glass optics gives you crystal-clear images in even the harshest environments.

Zoom lenses range from 6x zoom ratio for car parks and entrance location, to a massive 30x ratio up to 300mm fully zoomed in for long-distance monitoring of fence lines or large open spaces.

ZOOM RATIO	FOCAL LENGTH mm	MANUAL FOCUS & IRIS (MI)	DIRECT DRIVE(DD)	PRE-SET VERSION (DD)	VIDEO DRIVE (VD)	PRE SET VERSION (VD)
6 x	5.7-34.2	T6Z5710-MCS				
6 x	8-48	H6Z0812				
6 x	5.7-34.2		T6Z5710AIDC-CS		T6Z5710AIVD-CS	
6 x	8-48		H6Z0812AIDC		H6Z0812AIVD	
6 x	5.7-34.2		T6Z5710DC-CS	T6Z5710PDC-CS	T6Z5710AMS-CS	T6Z5710AMSP-CS
6 x	8-48				H6Z0812AMS	H6Z0812AMSP
10 x	5.7-57		T10Z5712DC-CS	T10Z5712PDC-CS	T10Z5712AMS-CS	T10Z5712AMPS-CS
10 x	8-80				H10Z0812AMS	H10Z0812AMSP
10 x	12-120		H10Z1218DC	H10Z1218PDC	H10Z1218AMS	H10Z1218AMSP
16 x	7.5-120		H16Z7516DC	H16Z7516PDC	H16Z7516AMS	H16Z7516AMSP
16 x	7.5-120				H16Z7516AMS-IR	H16Z7516AMSP-IR
21 x	5.8-121.8		T21Z5816DC-CS	T21Z5816PDC-CS	T21Z5816AMS-CS	T21Z5816AMSP-CS
30 x	10-300				H30Z1015AMS	H30Z1015AMSP
34 x	5.5-187		T34Z5518DC-CS	T34Z5518PDC-CS	T34Z5518AMS-CS	T34Z5518AMSP-CS

Selected lenses available with:

Iris override

Pre-plugged 4 Pin Direct Drive Auto Iris Lead

ZOOM LENSES

Manual & Motorised Zoom Lenses

Lenses



Standard view



6:1



10:1



21:1



30:1

ZOOM LENS DISTANCE SELECTOR

	Scene width (m)																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
500	-	-	-	-	-	-	-	300	267	240	218	200	185	171	160	150	141	133	126
400	-	-	-	-	-	-	274	240	213	192	175	160	148	137	128	120	113	107	101
300	-	-	-	-	288	240	206	180	160	144	131	120	111	103	96	90	85	80	76
200	-	-	-	240	192	160	137	120	107	96	87	80	74	69	64	60	56	53	51
150	-	-	240	180	144	120	103	90	80	72	65	60	55	51	48	45	42	40	38
120	-	288	192	144	115	96	82	72	64	58	52	48	44	41	38	36	34	32	30
100	-	240	160	120	96	80	69	60	53	48	44	40	37	34	32	30	28	27	25
70	-	168	112	84	67	56	48	42	37	34	31	28	26	24	22	21	20	19	18
50	240	120	80	60	48	40	34	30	27	24	22	20	18	17	16	15	14	13	13
30	144	72	48	36	29	24	21	18	16	14	13	12	11	10	10	9	8	8	8
10	48	24	16	12	10	8	7	6	-	-	-	-	-	-	-	-	-	-	-

Selecting a lens

- 1) Determine the scene width
- 2) Calculate the distance between the scene and the camera
- 3) Read off the focal length of lens required for the chart

Example: Scene width = 7mm, object distance = 120mm

Focal length of lens required = 82mm

Use the chart below and look under focal length column for all lenses with a focal length above 82. Any above 82 will be compatible for the scene in this example.

F STOP	ZOOM TYPE	FORMAT	SUITABLE FOR CAMERA FORMAT
1.0-16C	MANUAL	1/3" CS	1/3"
1.2-16C	MANUAL	1/2" C	1/3" & 1/2"
1.0-360	MANUAL	1/3" CS	1/3"
1.2-560	MANUAL	1/2" C	1/3" & 1/2"
1.0-360	MOTORISED	1/3" CS	1/3"
1.2-560	MOTORISED	1/2" C	1/3" & 1/2"
1.2-560	MOTORISED	1/3" CS	1/3"
1.2-560	MOTORISED	1/2" C	1/3" & 1/2"
1.8-560	MOTORISED	1/2" C	1/3" & 1/2"
1.6-560	MOTORISED	1/2" C	1/3" & 1/2"
1.6-560	MOTORISED	1/2" C	1/3" & 1/2"
1.6-560	MOTORISED	1/3" CS	1/3" & 1/2"
1.5-560	MOTORISED	1/2" C	1/3" & 1/2"
1.8-560	MOTORISED	1/3" CS	1/3" & 1/2"



FIXED FOCAL LENGTH LENSES

1/2" & 1/3" Fixed Focal Length Lenses



- Glass optics for a high resolution image
- Suitable for all colour and monochrome cameras
- Spot filter on all auto iris versions
- Slip ring for easy installation
- Wide F range for perfect pictures from low light to extreme sunshine
- Simple to install and set up

Fixed focal length lenses offer the CCTV installer fixed images of a scene. These lenses are an ideal solution when the views are known such as a fire exit door or an entrance foyer. All Computar fixed focal lenses have a manual adjustment of the focus for crisp clear images and locking screws to hold position.

Although this range of lenses do not have adjustment of the focal length they are ideal choice of lens where the object distance is fixed. They also offer higher image quality as all lenses are manufactured using glass optics.

The fixed focal length range of lenses are very easy to install. No special training is required, just focus up your image and lock into position.

Focal Length (mm)	Manual (M)	Direct Drive (DD)	Video Drive (VD)	F Stop	Angle	Suitable for Camera Format
2.3	T2314FICS-3	TG2314FCS-3	TG2314AFCS-3	1.4-360	113.3°	1/3"
2.6	T2616FICS-3	TG2616FCS-3	TG2616AFCS-3	1.6-360	99.6°	1/3"
4.0	T0412FICS-3	TG0412FCS-3	TG0412AFCS	1.2-360	63.9°	1/3"
6.0		HG0614FCS	HG0614AFCS	1.4-360	58.3°	1/2" & 1/3"
8.0	T0812FICS-3	TG0812FCS-3	TG0812AFCS	1.2-360	34.7°	1/3"
12.0	H1214FICS	HG1214FCS-3	HG1214AFCS-3	1.4-360	30.4°	1/2" & 1/3"

All DD lenses are supplied with 9cm short leads as standard.

A long lead (31cm) is available, part code /31.

*Weight and dimensions of the lenses above are based on the heaviest lens in the series.

Please refer to the lens catalogue for actual weight information.

PINHOLE & LENS ACCESSORIES

Pinhole & Installation Aids

Lenses

Pinhole lenses are ideal for security and industrial applications where high quality images are required but where the lens and camera must be hidden. High quality images are achieved where the viewing area is no more than a pinhole. These lenses can be used on colour, colour/mono and monochrome cameras.



FOCAL LENGTH (mm)	PRODUCT CODE	F STOP	AOV (HORIZONTAL)	TYPE	FORMAT	DIMENSIONS (øxH) & (øxHxD)	WEIGHT
2.6	T2625CS-P	2.5-32C	83.2°	PINHOLE STRAIGHT	1/3" CS	ø34.5X73.5	80g
2.6	TG2625FCS-P	2.5-360	83.2°	PINHOLE STRAIGHT	1/3" CS	ø34.5X39.8X73.5	82g
2.6	TG2625AFCS-P	2.5-360	83.2°	PINHOLE STRAIGHT	1/3" CS	ø34.5X39.8X73.5	85g

Viewfinders are ideal for all installers to help them decide on camera location and views. This simple device allows you to see what the camera will see in location. Once you have agreed the view, you can simply read off the relevant lens size from the scale on the barrel.

The Extension Tube Kit allows a lens to be focused on an object that is nearer to the camera than the normal lens focus movement allows. It consists of 6 metal spacers and barrels (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm long). The EX2/EX1.5 Extender increases the focal length of a lens by a factor of 2x or 1.5x when screwed onto the rear of a lens.



Ordering Codes:

VM300 Viewfinder
 VM 100 Extension Tube Kit
 VM 400 C/CS Mount Converter
 DL00 Dummy Lens

EX1.5C C-Mount 1.5x Extender
 EX2C C-Mount 2x Extender
 EX1.5CS CS-Mount 1.5x Extender
 EX2CS CS-Mount 2x Extender

ZC-NH258P*Super High Resolution Colour/Monochrome Camera*

- True day/night
- 1/3" IT CCD
- Super high resolution (540 TVL)
- High sensitivity with minimum illumination
- Excellent picture quality in both day and night mode
- Fast changeover from day/night mode (less than 1.5 sec)
- Backlight compensation
- Accurate colour reproduction
- Low voltage power input
- IR sensitive

Perfect Partners

IR50 Illuminator
Page 47



IR Lens
Page 4

ZC-NH258P is a super high resolution day/night camera that is cost-effective, compact and simple to install. Its high performance CCD image sensor, combined with a digital signal processing chip, delivers 540 TVL.

The camera is suitable for almost all applications where there is poor lighting. The day/night switching mode is ultra-reactive to changing light conditions, providing high quality colour pictures in normal lighting conditions (day mode) and sharp black & white pictures in low light conditions. When the light fades, the camera switches automatically to night mode by removing the IR filter or by using a remote photocell (not supplied) connected to the D/N switchover terminals on the rear of the camera.

Model	ZC-NH258P
TV System	PAL
Lens Mount	CS mount
Resolution (Horizontal)	540 TVL
Minimum Illumination (F1.2/50IRE)	1.2 lux (colour), 0.08 lux (mono)
With IR Illuminance	0.00 lux
Power Supply	12V DC / 24V AC Auto Switching
Power Consumption	4.5 W or less
Weight (approximate)	270g
External Dimensions	60(W) x 54(H) x 103.3(D) mm

Ordering Codes:

ZC-NH258P Super High Resolution True Day/Night Colour/Mono Camera

ZC-NH405 SERIES

High Resolution Colour/Monochrome (D/N) Camera

Cameras

- True day/night
- 1/3" external view
- Stylish design
- High sensitivity with minimum illumination
- Super high resolution 540 TVL
- Excellent picture quality in both day and night mode
- Unique 10-bit DSP
- White balance
- Auto iris level adjustment by OSD menu
- Low voltage power input (12V DC/24V AC)



Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

The super high resolution ZC-NH405P boasts 10-bit digital signal processing (DSP) technology for superb pictures.

The day/night function provides high quality colour pictures in normal lighting conditions (day mode) and a high sensitivity black & white picture in low light conditions (night mode) by physically switching an IR cut filter.

The ZC-NH405P also offers high resolution through a 1/3" high-sensitivity CCD sensor. The OSD menu has various settings including RS485 interface, area sensing BLC, backfocus adjustment, camera titling and privacy zone masking.

Perfect Partners



IR Lens
Page 4



IR 30i Infrared lamp
Page 46

Model	ZC-NH405P
TV System	PAL
Lens Mount	CS mount
Image Sensor	1/3" External view
Resolution (Horizontal)	540 TVL
Minimum Illumination	1.2 lux: Colour Mode (F1.2) 0.01 lux: B/W Mode
Power Supply	12V DC / 24V AC Auto Switching
Power Consumption	4.5 W
Weight (approximate)	450g
External Dimensions	76(W) x 61(H) x 123(D) mm
Communication	RS485 two-way communication
OSD	Camera ID (000_999 address), Menu setting

Ordering Codes:

ZC-NH405P Colour/Monochrome Camera, Super High Resolution 540TVL

ZC-YHW702P*High Resolution Colour/Monochrome (D/N) Wide Dynamic Camera*

- Wide dynamic range
- True day/night
- On-screen set up
- Privacy masking
- On-screen display
- Aperture correction (horizontal and vertical)
- Backlight compensation
- IR sensitive
- High quality images

This high performance ZC-YHW702P camera combines wide dynamic function, true day/night, long-term integration and can be configured to meet the most demanding of applications.

The camera comes in a low voltage format accepting AC or DC power sources automatically and can be used with all **computer** lenses (fixed, manual, DC and video drive iris).

The ZC-YHW702P has a wide range of features that can be accessed through the on-screen display menus. These features include configurable WDR function to compensate for changing backlight conditions, day/night changeover level and changeover mode for enhanced night and IR performance.

Perfect Partners

IR300
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IR Lens
Page 4

Model	ZC-YHW702P
TV System	PAL
Lens Mount	CS mount
Image sensor	1/3" IT CCD
Resolution (horizontal)	510 TVL (colour), 520 TVL (mono)
Minimum Illumination (50IRE)	0.8 lux (colour), 0.1 lux (mono)
WDR	Yes (60dB)
Alarm input	Yes
Voltage input	12V DC / 24V AC
Power Consumption	390 mA (12V DC), 270 mA (24V AC)
Weight (approximate)	330g
External Dimensions	60(W) x 66(H) x 123(D) mm

Ordering Codes:

ZC-YHW702P High Resolution, Colour/Mono Wide Dynamic Camera

ZC-Y12 SERIES

Super High Resolution Cameras

Cameras

- 1/3" IT CCD
- Super high resolution (540 TVL)
- High sensitivity with minimum illumination
- Backlight compensation
- Accurate colour reproduction
- Various voltage options
- Benchmark award winner



Lens not included

The ZC-Y12 series of super high resolution compact colour cameras is suitable for applications where there is a strong emphasis on outstanding picture quality with detail.

The CCD image sensor combines with a digital signal processing chip to deliver 540 TVL.

Extensive standard features on the ZC-Y12 range include advanced digital signal processing, auto iris amplifier, and internal or line lock synchronisation, complete with phase adjustment.

This camera is also available with a built-in UTP transmitter option (ZC-Y12PH5), ideal for demanding installations where greater distances need to be covered during cabling.



Perfect Partners



ZM-L217H
Page 65



Aspherical
Varifocal Lens
Page 5

Model	ZC-Y12PH3	ZC-Y12PH4	ZC-Y12PH5
TV System	PAL	PAL	PAL
Lens Mount	CS mount	CS mount	CS mount
Image Sensor	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD
Resolution (Horizontal)	540 TVL	540 TVL	540 TVL
Minimum Illumination (F1.2/50IRE)	1.2 lux (D D/N off), 0.8 lux (D D/N on)	1.2 lux (D D/N off), 0.8 lux (D D/N on)	1.2 lux (D D/N off), 0.8 lux (D D/N on)
Power Supply	230V AC	12V DC / 24V AC Auto Switching	12V DC / 24V AC Auto Switching
Power Consumption	4.5 W or less	4.5 W or less	4.5 W or less
Weight (approximate)	270g	270g	270g
External Dimensions	60(W) x 54(H) x 103.3(D) mm	60(W) x 54(H) x 103.3(D) mm	60(W) x 54(H) x 103.3(D) mm

Ordering Codes:

- ZC-Y12PH3 Super High Resolution Camera, Colour, 230V
 ZC-Y12PH4 Super High Resolution Camera, Colour, 12-24V
 ZC-Y12PH5 Super High Resolution Camera, Colour, 12-24V with Integrated UTP Transmitter

ZC-D5000 DOME SERIES

Super High Resolution Colour Domes with Integrated Varifocal Lens



- 1/3" IT CCD
- Super high resolution 540 TVL
- Integrated Computer varifocal lens
- Impressive colour reproduction
- Digital signal processing
- Backlight compensation
- Automatic gain control
- Easy adjustment with the unique 3-axis gimble

The ZC-D5000 series of dome cameras offer a high resolution of 540TVL using a CCD image sensor combined with a DSP chip, with a choice of three **computer** CS-mount varifocal lenses for improved performance.

New additions to the range include the ZC-D5029PHA colour dome with varifocal 2.9-8.2mm lens and the ZC-D5550PHA model, which comes with a varifocal 5.0-50.0mm lens. They join the popular existing ZC-D5212PHA dome with its 2.8-12mm auto iris varifocal lens designed for optimum performance in demanding lighting conditions.

Camera body switches provide set-up selection including backlight compensation, AGC on/off, auto white balance/auto white tracing (colour only).

Perfect Partners



ZR-DHC1630NP
Page 54



ZM-L217H
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Model	ZC-D5029PHA	ZC-D5212PHA	ZC-D5550PHA
TV System	PAL	PAL	PAL
Focal Length	2.9-8.2mm	2.8-12mm	5-50mm
Maximum Aperture	F1.0	F1.0	F1.0
Minimum illumination	0.83 lux	0.94 lux	0.94 lux
Image sensor	1/3" Interlace CCD	1/3" Interlace CCD	1/3" Interlace CCD
Resolution	540 TVL	540 TVL	540 TVL
Power Supply	12V DC/24V AC	12V DC/24V AC	12V DC/24V AC
Power consumption	4.2 Watt (max)	4.2 Watt (max)	4.2 Watt (max)
Dimensions (mm)	144(D) x110(H)	144(D) x110(H)	144(D) x110(H)
Weight	470g	470g	470g

Ordering Codes:

ZC-D5029PHA Colour Dome with Varifocal 2.9 - 8.2mm Lens
ZC-D5212PHA Colour Dome with Varifocal 2.8 - 12.0mm Lens

ZC-D5550PHA Colour Dome with Varifocal 5.0 - 50.0mm Lens

ZC-DN5000 DOME SERIES

Super High Resolution Day/Night Domes with Integrated Varifocal Lens

Cameras

- True day/night
- 1/3" IT CCD
- Super high resolution 540 TVL
- Integrated Computar varifocal lens
- Impressive colour reproduction
- Digital signal processing
- Backlight compensation
- Automatic gain control
- Easy adjustment with the unique 3-axis gimble



As part of the expanded 2008 line-up of exciting ZC-5000 dome cameras, three day/night models have joined the range. The ZC-DN5029PHA offers a varifocal 2.9-8.2mm lens; the ZC-DN5212PHA has a varifocal 2.8-12.0mm lens; and the ZC-DN5840PHA model is fitted with an 8.5-40.0mm lens.

The domes have low voltage input, allowing either 12V DC or 24V AC power. A 3-axis gimble for camera position adjustment allows for ceiling or wall mounting. Other features include line lock with phase adjustment, automatic gain control, digital signal processing and impressive colour reproduction.

Perfect Partners



ZM-L217H
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ZR-DHC1630NP
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Model	ZC-DN5029PHA	ZC-DN5212PHA	ZC-DN5840PHA
TV System	PAL	PAL	PAL
Focal Length	2.9-8.2mm	2.8-12mm	8.5-40mm
Maximum Aperture	F1.0	F1.0	F1.0
Minimum illumination	0.07lux(50%IRE)	0.11lux(50%IRE)	0.11lux(50%IRE)
IR sensitive	Yes	Yes	Yes
Image sensor	1/3" Interlace CCD	1/3" Interlace CCD	1/3" Interlace CCD
Resolution (horizontal)	540 TVL	540 TVL	540 TVL
Power Supply	12V DC/24V AC	12V DC/24V AC	12V DC/24V AC
Power consumption	4.2 Watt (max)	4.2 Watt (max)	4.2 Watt (max)
Dimensions (mm)	144(D) x110(H)	144(D) x110(H)	144(D) x110(H)
Weight	470g	470g	470g

Ordering Codes:

ZC-DN5029PHA Day/Night Dome with Varifocal 2.9 - 8.2mm Lens
ZC-DN5212PHA Day/Night Dome with Varifocal 2.8 - 12.0mm Lens

ZC-DN5840PHA Day/Night Dome with Varifocal
8.5 - 40.0mm Lens

ZC-DT5000 VANDAL-RESISTANT DOME SERIES

Super High Resolution Colour & Colour/Monochrome Vandal-resistant Domes



- Vandal-resistant
- IP66
- 1/3" IT CCD
- Super high resolution 540 TVL
- Integrated computer varifocal lens
- Impressive colour reproduction
- Digital signal processing
- Backlight compensation
- Automatic gain control
- Flexible mount options with a 3-axis gimble

Perfect Partners



Swan Neck Bracket
Page 23



WL Lamps
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The ZC DT range of external vandal-resistant domes is the external version of the very popular ZC D and ZC DN range of super high resolution domes. Like the other models, the external vandal-resistant versions come in a range of lens options and also colour or colour/mono true day/night dome cameras.

The external units are waterproof and sealed to IP66 and can be surface mounted. There is also a range of alternative mounting options if required.

The ZC-DT2029PHA super high resolution colour dome offers a varifocal option of 2.9-8.2mm. The ZC-DNT5212PHA is a super high resolution colour/mono true day/night dome that offers a varifocal option of 2.8-12mm and the ZC-DNT5840PHA is a super high resolution colour unit that offers a varifocal option of 8.5-40mm.

Model	ZC-DT5029PHA	ZC-DNT5212PHA	ZC-DNT5840PHA
TV System	PAL	PAL	PAL
Focal Length	2.9-8.2mm	2.8-12mm	8.5-40mm
Maximum Aperture	F1.0	F1.3	F1.3
Minimum illumination	0.83 lux	0.94 lux	0.94 lux
Image sensor	1/3" Interlace CCD	1/3" Interlace CCD	1/3" Interlace CCD
Resolution (horizontal)	540 TVL	540 TVL	540 TVL
Power Supply	12V DC/24V AC	12V DC/24V AC	12V DC/24V AC
Power consumption	4.2 Watt (max)	4.2 Watt (max)	4.2 Watt (max)
Dimensions (mm)	170(D) x 130(H)	170(D) x 130(H)	170(D) x 130(H)
Weight	1200g	1200g	1200g

Ordering Codes:

- ZC DT5029PHA Super High Resolution External Colour Dome Camera c/w 2.9-8.2mm Varifocal Lens
- ZC DNT5212PHA Super High Resolution External True Day/Night Colour/Mono Dome Camera c/w 2.8-12mm Varifocal lens
- ZC DNT5840PHA Super High Resolution External True Day/Night Colour/Mono Dome Camera c/w 8.5-40mm Varifocal lens

ZC-D4000 DOME SERIES

Super High Resolution Domes

Cameras

- Super high resolution
- Integrated 3.0-9.0 mm varifocal lens
- Models: colour, true day/night, wide dynamic
- Backlight compensation
- Digital noise reduction
- Simple camera set-up via OSD
- 3-axis gimble for easy assembly
- Flexible mounting options



The new ZC-D4039PHA super high resolution (540 TVL) colour dome camera provides impressive scene reproduction and low light performance, even in the most demanding conditions. The ZC-DN4039PHA is a day/night version: the ZC-DW4039PHA super wide dynamic model offers advanced pixel control for better detail capture in shadows and improved light management.

The cameras are supplied with a 3.0-9.0mm direct drive varifocal lens that provides clear, sharp images in all situations. Installation set-up is aided by selecting dip switches on the camera body. These include BLC, AGC-EX for extra sensitivity, and AWB. A flickerless mode minimises interference from fluorescent lighting.

Perfect Partners



ZM-L217(E)
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C-MP404DVR
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Model	ZC-D4039PHA	ZC-DN4039PHA	ZC-DW4039PHA
TV System	PAL	PAL	PAL
Focal Length	3.0-9.0 mm	3.0-9.0 mm	3.0-9.0 mm
Max Aperture Ratio	1:1.3	1:1.3	1:1.3
Angle of View: horizontal	90.0° ~ 31.8°	90.3° ~ 31.9°	90.0° ~ 31.8
Image Sensor	1/3" IT CCD	1/3" IT CCD	Pixim Sensor
Resolution (Horizontal)	540 TVL	540 TVL	520 TVL
Minimum Illumination (100 IRE)	0.65 lux @ F1.2	1.0 lux (Day)/ 0.08 lux (Night)	1.3 lux
With IR Illuminance	N/A	0.00 lux (Night mode, B/W)	N/A
Wide Dynamic Range	N/A	N/A	120dB / 17 bit
Digital Day/Night	On/Off	N/A	On/Off
Power Supply	12V DC/ 24V AC	12V DC/ 24V AC	12V DC/ 24V AC
Power Consumption	2.8W	4.3W	3W
External Dimensions	120(D)mm x 100 (H)mm	120(D)mm x 100 (H)mm	120(D)mm x 100 (H)mm
Weight (approximate)	300g	300g	300g

Ordering Codes:

ZC-D4039PHA Colour Dome Camera

ZC-DN4039PHA True Day/Night Digital Colour/Mono Dome Camera

ZC-DW4039PHA Wide Dynamic Colour Dome Camera

ZC-DT4000 VANDAL-RESISTANT DOME SERIES

Super High Resolution Vandal-resistant Domes



- Super high resolution
- Integrated 3.0-9.0mm varifocal lens
- Weatherproof (IP66 rated)
- Impact- and scratch-resistant polycarbonate bubble
- Simple camera set-up via OSD
- Backlight compensation
- Easy adjustment with the unique 3-axis gimble

The new ZC-D4000 range includes the ZC-DT4039PHA vandal-resistant dome camera for harsh environment surveillance solutions. The dome bubble is constructed from extra strong impact resistant polycarbonate, and a vandal-resistant IP66-rated housing with anti-tamper Torx screws is supplied.

The ZC-DNT4039PHA is a true day/night unit with a 3.0-9.0mm varifocal lens to provide clear, sharp images in all circumstances. The ZC-DWT4039PHA dome combines vandal-resistant features with a super wide dynamic camera using next-generation Pixim-based technology. This allows the camera to capture detail in shadows and manage light more effectively in bright glare.

Perfect Partners



ZM-L217(E)
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C-MP404DVR
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Model	ZC-DT4039PHA	ZC-DNT4039PHA	ZC-DWT4039PHA
TV System	PAL	PAL	PAL
Focal Length	3.0-9.0 mm	3.0-9.0 mm	3.0-9.0 mm
Max Aperture Ratio	1:1.3	1:1.3	1:1.3
Angle of View: horizontal	90.0° ~ 31.8°	90.3° ~ 31.9°	90.0° ~ 31.8°
Resolution (Horizontal)	540 TVL	540 TVL	520 TVL
Minimum Illumination (100 IRE)	1.0 lux	1.0 lux (Day)/ 0.08 lux (Night)	1.3 lux
Digital Day/Night	SDN Auto/On/Off	N/A	SDN Auto/On/Off
Power Supply	12V DC/24V AC	12V DC/24V AC	12V DC/24V AC
Power Consumption	4W	4.3W	3W
IP Rating	IP66	IP66	IP66
External Dimensions	171(D)mm x 100 (H)mm	171(D)mm x 100 (H)mm	171(D)mm x 100 (H)mm
Weight (approximate)	586g	586g	586g

Ordering Codes:

ZC-DT4039PHA 540TVL Vandal-resistant Colour Dome
ZC-DNT4039PHA 540TVL True Day/Night Colour/Mono Vandal-resistant Dome

ZC-DWT4039PHA Wide Dynamic Range 520 TVL
Colour Camera

ZC D4000 & ZC D5000 RANGE OF ACCESSORIES

Internal & External Dome Accessories

Cameras

ZC D4000 RANGE

Internal

<p>Internal gooseneck arrangement</p> <p>Ordering Codes: ZCA-GN400W ZCA-DMA400W Wall-mounted Gooseneck bracket and Adaptor</p>		<p>Internal flush mount</p> <p>Ordering Codes: ZCA-FMA400W</p>	
<p>Internal corner mount</p> <p>Ordering Codes: ZCA-CMA400W</p>		<p>Internal pendant mount</p> <p>Ordering Codes: ZCA-DMA400W (pole not included)</p>	
<p>Test lead</p> <p>Ordering Codes: ZCA-SM400</p>		<p>Internal quick install pipe</p> <p>Ordering Codes: ZCA-QIP</p>	

External

<p>External pendant mount</p> <p>Ordering Codes: ZCA-DMA400W-T (pole not included)</p>		<p>External gooseneck arrangement</p> <p>Ordering Codes: ZCA-GN400W ZCA-DMA400W-T Wall-mounted Gooseneck bracket and adaptor</p>	
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ZC D5000 RANGE

Internal

<p>Internal gooseneck arrangement</p> <p>Ordering Codes: ZC5-WM1 Wall-mounted gooseneck bracket</p>		<p>Internal pendant mount</p> <p>Ordering Codes: ZC5-PM1 (pole not included)</p>	
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External

<p>External gooseneck arrangement</p> <p>Ordering Codes: ZC5-WM2 Wall-mounted gooseneck bracket</p>		<p>External pendant mount</p> <p>Ordering Codes: ZC5-PM2 (pole not included)</p>	
<p>External vandal-resistant dome housing</p> <p>Ordering Codes: ZC-OH5</p>			

ZC-DT6000 VANDAL-RESISTANT DOME SERIES

Vandal-resistant Domes with Built-in Illuminators



- Vandal-resistant
- High resolution and WDR
- IR sensitive colour camera
- Flexible 3.3 - 12.0mm varifocal lens
- Built-in IR LEDs for 0 lux performance
- Backlight compensation
- On-screen display
- Flexible mounting options with the unique 3-axis gimble

Perfect Partners



CMP-404 DVR
Page 56



ZM-L monitor
Page 64

New to the Ganz camera range, the ZC-DT6312PHAL uses a high resolution (480 TVL) CCD image sensor combined with infrared illuminators to provide a vandal-resistant dome camera capable of operating in all conditions. Its sister model, the ZC-DNT6312PHAL, offers day/night operational capability (with 520 TVL resolution), and the ZC-DWT6312PHAL provides wide dynamic performance.

All three units are supplied with a 3.3-12.0mm direct drive varifocal lens designed to provide clear, sharp images over a wide field of view. A 3-axis gimble allows flexible ceiling or wall-mounting options and camera body dip switches provide further set-up options.

Model	ZC-DT6312PHAL	ZC-DNT6312PHAL	ZC-DWT6312PHAL
TV System	PAL	PAL	PAL
Focal Length	3.3-12.0 mm	3.3-12.0 mm	3.3-12.0 mm
Image Sensor	1/3" IT CCD	1/3" IT CCD	Pixim Sensor
Resolution (horizontal)	480 TVL	520 TVL	480 TVL
Minimum Illumination (50% IRE)	0.8 lux; 0.0 lux IRs - ON	0.8 lux; 0.0 lux IRs - ON	0.8 lux; 0.0 lux IRs - ON
Infra Red Illumination	15 m	15 m	15 m
OSD	Built in	Built in	Built in
Power Supply	12V DC/ 24V AC	12V DC/ 24V AC	12V DC/ 24V AC
Power Consumption	4.75W	5.7W	5.6W
Operating Temperature	-10°C ~ +55°C	-10°C ~ +55°C	-10°C ~ +55°C
External Dimensions	140(D)mm x 110(H)mm	140(D)mm x 110(H)mm	140(D)mm x 110(H)mm
Weight (approximate)	1000g	850g	1010g

Ordering Codes:

ZC-DT6312PHAL High Resolution Vandal-resistant Colour Dome Camera
 ZC-DNT6312PHAL Super High Resolution Vandal-resistant True Day/Night
 Colour/Mono Dome Camera

ZC-DWT6312PHAL Super High Resolution Vandal-resistant
 Wide Dynamic Colour Dome Camera

*IP rating (Ingress Protection) = IP66 - all models

MD SERIES

Standard Resolution Colour Mini Domes

Cameras

- 12V DC operation
- 1/3" IT CCD
- Integrated fixed lens
- Very discreet
- Easy to install
- Complete with connection leads
- On-screen display
- Flexible mounting options with the unique 3-axis gimble
- 3.6mm or 6.0mm lens options



Internal

The MD colour series mini domes are the smallest of the Ganz compact cameras, being fitted with a 1/3" CCD.

The cameras have an automatic electronic shutter system, allowing them to compensate quickly and easily for changing lighting conditions.

Additionally, the mini dome has an automatic white balance circuit, allowing it to operate correctly in changing colour conditions.

MTC-36

Standard Resolution Colour Tube Camera

The MTC-36P is compact and discreet and useful for a variety of applications.

The camera has automatic gain control, backlight compensation, automatic white balance, and automatic electronic shutter.



Dimensions: 32(W) X 32(H)mm

Model	MDC-36-III	MDC-60-III	MTC-36
TV System	PAL	PAL	PAL
Focal Length	3.6 mm	6.0 mm	3.6 mm
Image Sensor	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD
Resolution (horizontal)	350 TVL	350 TVL	350 TVL
Minimum Illumination	0.5 lux	0.5 lux	0.5 lux
Power Supply	12V DC	12V DC	12V DC
Power Consumption	4.0W	4.0W	4.0W
External Dimensions	62(D)mm x 54(H)mm	62(D)mm x 54(H)mm	26(D)mm x 87(H)mm
Weight (approximate)	144.5g	144.5g	300g

Ordering Codes:

- MDC-36-III Colour Mini Dome Camera Complete with 3.6mm Lens
MDC-60-III Colour Mini Dome Camera Complete with 6.0 mm Lens
MTC-36 Colour Tube Camera Complete with 3.6mm Lens and Wall Bracket

ZC-BT/BX RANGE & MTC RANGE

IR Bullet Cameras



ZC-BT/BX Range

- Compact and lightweight
- Automatic day and night function
- 10-12m effective range
- Automatic IR trigger-on under low illumination
- Automatic IR off under normal illumination
- Water-resistant
- EFZA (external, focus, zoom adjustment) on BNX and BX models
- True day/night (BN models)



MTC-EX
External/Internal
with fixed lens

The new ZC-BT/BX range of colour IR cameras have a 3.0-9.0mm auto-iris high speed varifocal lens working with infrared LEDs to deliver optimum performance in demanding lighting conditions. The cameras have an automatic trigger-on under low illumination levels for around-the-clock surveillance.

Dependent on model, an effective range of between 10-15m can be achieved. The compact and lightweight IR cameras include vandal-resistant versions, are water-resistant and have IP66 and IP55 rating, making them suitable for outdoor use.

Model	ZC-BT3039PHA	ZC-BNT3039PHA	ZC-BX3039PHA	ZC-BNX3039PHA	MTC-EX4
TV System	PAL	PAL	PAL	PAL	PAL
Focal Length	3.0 ~ 9mm	3.0 ~ 9mm	3.0 ~ 9mm	3.0 ~ 9mm	4.0mm
External Adjustment	NO	NO	YES	YES	NO
Resolution (horizontal)	>480 TVL	>480 TVL	>480 TVL	>480 TVL	>350 TVL
Minimum Illuminance	0 lux; IRs ON	0 lux; IRs ON	0 lux; IRs ON	0 lux; IRs ON	0 lux; IRs ON
Day & Night	Digital	True	Digital	True	Digital
Power Supply	24V AC/12V DC	24V AC/12V DC	24V AC/12V DC	24V AC/12V DC	12V DC
Power Consumption 12Vcc	6.5W	6.5W	6.5W	6.5W	4.5W
24Vca	6.0W/430mA	6.0W/430mA	6.0W/430mA	6.0W/430mA	6.0W/430mA
IP Rating	IP65	IP65	IP55	IP55	IP55
IR LED	16 LED = 12m	16 LED = 12m	16 LED = 15m	16 LED = 12m	10m
Operating Temperature & Humidity	10°C ~50°C, 85° RH max	10°C ~50°C, 85° RH max	10°C ~50°C, 85° RH max	10°C ~50°C, 85° RH max	10°C ~50°C, 85° RH max
Dimensions	117(L)mm x 84 (D)mm	6117(L)mm x 84 (D)mm	117(L)mm x 84 (D)mm	117(L)mm x 84 (D)mm	117(L)mm x 84 (D)mm
Weight (approximate)	650g	650g	650g	650g	345g

Ordering Codes:

MTC EX4 IR Bullet Camera with 4mm Lens and Bracket
 ZC-BT3039PHA Digital Day/Night Digital IR Bullet Camera with Bracket
 ZC-BNT3039PHA True Day/Night IR Bullet Camera with Bracket

ZC-BX3039PHA Digital Day/Night IR Bullet Camera with Bracket (EFZA)
 ZC-BNX3039PHA True Day/Night IR Bullet Camera with Bracket (EFZA)

ZC-L1210PHA

High Resolution Spot Cam with Integrated Varifocal Lens

Cameras

- 1/4" IT CCD
- Integrated 2.8-10mm Computar lens
- Optional mounting brackets
- Twisted-pair video transmission option
- Low voltage
- Discreet design
- Easy adjustment and installation



(bracket not included)

This camera is suited to retail environment applications. A discreet, stylish housing combined with a new 2.8-10mm extended range varifocal also makes this camera/lens combination the perfect general-purpose internal camera, offering exceptional performance.

The spot cam is compact with a 4.8 inch overall length suitable for most standard surveillance installations, especially where the appearance of the camera is critical to the interior design.

An optional ZCA-LB101 mount eases installation options on ceilings and walls by concealing the power and video wiring. Another optional bracket is the ZP-B15.

Perfect Partners



*ZCA-LB101
Page 90
*(to be ordered separately)



*ZP-B15
Page 90

Model	ZC-L1210PHA
TV System	PAL
Focal Length	2.8 mm-10.0mm
Max Aperture Ratio	1:1.2
Iris	F1.2 - 360 (DC auto iris)
Resolution (horizontal)	480 TVL
Minimum Illumination 100 IRE	0.75 lux
Power Supply	12V DC/ 24V AC
Power Consumption DC 12V	2.0W
AC 24V	2.5W
External Dimensions	55(D)mm x 61(H)mm x 122(D)mm
Weight (approximate)	200g

Ordering Codes:

ZC-L1210PHA High Resolution Colour Camera with Integrated 2.8-10mm Computar Lens

ZC F & FC RANGE OF MONOCHROME CAMERAS

Standard & High Resolution Range of Monochrome Cameras



- 1/3" IT CCD
- High resolution and standard resolution
- Line lock with phase adjustment
- Auto white balance
- Backlight compensation
- Automatic gain control
- Mains voltage and low voltage
- IR sensitive



Ganz F and FC range of CS mount cameras can accept all types of lenses, whether they are manual for internal applications using AES (auto electronic shutter), or for external use (when fitted inside a housing) using auto iris lenses, either DC or video iris – provided the connection is from the same plug.

Within the range there are both mains voltage and low voltage options, using either DC or videodrive auto-iris lenses.

Features such as automatic gain control, backlight compensation and phase synchronisation allow the camera's set-up to be customised to suit the environment.

Model	ZC-F11C3	ZC-F11C4	ZC-F11CH3	ZC-F11CH4
TV System	CCIR	CCIR	CCIR	CCIR
Lens mount	CS mount	CS mount	CS mount	CS mount
Image Sensor	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD
Resolution (horizontal)	380 TVL	380 TVL	570TVL	570TVL
Minimum Illumination	0.09 lux	0.09 lux	0.18 lux	0.18 lux
Power Supply	230V AC	12V DC/24V AC	230V AC	12V DC/24V AC
Power Consumption	<4W	<3W	<4W	<3W
External Dimensions	60(W)mm x 54(H)mm x 95(D)mm	60(W)mm x 54(H)mm x 95(D)mm	60(W)mm x 54(H)mm x 95(D)mm	60(W)mm x 54(H)mm x 95(D)mm
Weight (approximate)	600g	300g	600g	300g

Model	FC-30C	FC-25C	FCH-30C	FCH-25C
TV System	CCIR	CCIR	CCIR	CCIR
Lens mount	CS mount	CS mount	CS mount	CS mount
Image Sensor	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD
Resolution (horizontal)	380 TVL	380 TVL	570TVL	570TVL
Minimum Illumination	0.04 lux	0.04 lux	0.08 lux	0.08 lux
Power Supply	230V AC	12V DC/24V AC	230V AC	12V DC/24V AC
Power Consumption	<3.5W	<3.0W	<3.5W	<3.0W
External Dimensions	55(W)mm x 40(H)mm x 112.4(D)mm	55(W)mm x 40(H)mm x 112.4(D)mm	55(W)mm x 40(H)mm x 112.4(D)mm	55(W)mm x 40(H)mm x 112.4(D)mm
Weight (approximate)	410g	280g	410g	280g

Ordering Codes:

ZC-F11C3 Mono 380 TVL Standard Resolution, 230V
 ZC-F11C4 Mono 380 TVL Standard Resolution, 12-24V
 ZC-F11CH3 Mono 570 TVL High Resolution, 230V
 ZC-F11CH4 Mono 570 TVL High Resolution, 12-24V

FC-25C Mono 380 TVL Standard Resolution, 12-24V
 FCH-25C Mono 380 TVL High Resolution, 12-24V
 FC-30C Mono 570 TVL Standard Resolution, 230V
 FCH-30C Mono 570 TVL High Resolution, 230V

MEC-P37

Standard Resolution Colour Miniature Camera

Cameras

- Integrated 3.6mm fixed lens
- Ideal for covert applications
- Backlight compensation



Dimensions: 36(W) x 36(H) x 15.9(D)mm

This standard resolution mini camera is supplied with a built-in 3.6mm fixed lens and is ideal for covert applications where there is a budget restraint.

The camera has automatic gain control, backlight compensation, automatic white balance, and automatic electronic shutter.

Ordering Codes:

MEC-P37 1/3" Miniature Colour Camera, 350 TVL

MM & CM SERIES

Colour & Monochrome Range of Board Cameras

- Various lens options of the MM and CM board camera ranges are available



Dimensions: 32(W) X 32(H)mm

Various lens options of the MM & CM board camera ranges are available:

CS mount (no lens), L20 with 2.0mm lens, L25 with 2.5mm lens, L38 with 3.8mm lens, L60 with 6.0mm lens, L80 with 8.0mm lens, P29 with 2.9mm Pinhole lens, V26A with 2.0-6.0mm varifocal lens, V36A with 3.0-6.0mm varifocal lens, V310A with 2.8-10mm varifocal lens

Ordering Codes:

MM212	1/4" B&W, 380 TVL 0.1 Lux
MMH212	1/4" B&W, 580 TVL 0.2 Lux
CM212	1/4" Colour, 330 TVL 0.1 Lux
MH212	1/4" Colour, 480 TVL 2.0 Lux
DMH212-V48A	1/4" Colour/Mono, 480 TVL 0.09 Lux 4.0mm-7.5mm

Please contact your local distributor for further details.

Please add suffix to Part Number for lens option, i.e MMH212-L20 for 2.0mm Lens.

L20 = 2.0mm	V26A = 2.0-6.0mm Varifocal
L25 = 2.5mm	V36A = 3.0-6.0mm Varifocal
L38 = 3.8mm	V310A = 2.8-10.0mm Varifocal
L60 = 6.0mm	
L80 = 8.0mm	
P29 = 2.9mm Pinhole	



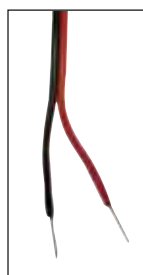
55(w)x48(h)x83(d)mm

The CPSU range of power supplies are specifically designed for the CCTV market. These linear power supply units are fully regulated and the range includes 12V DC 500mA, 12V DC 1A, and 24V AC 1A.

The power supplies come with a 3 pin moulded UK style plug top, two mount lugs for easy fitting and a low voltage flying lead for connection to your equipment.

Ordering Codes:

CPSU/12/0.5A/II	12V DC 500mA Maximum Load
CPSU/12/1.0A/II	12V DC 1A Maximum Load
CPSU/24/1.0A/II	24V AC 1A Maximum Load



46(W)x25(H)x94(D)mm



The CVPSU power supply is a switch mode unit and can be installed in most locations, because of its compact design.

The power supply comes with a 3 pin moulded UK style plug, four mounting lugs for easy fitting and a low voltage flying lead for connection to your equipment. The flying leads are coded red for positive and black for negative for easy identification.

Ordering Codes:

CVPSU12	12V DC 1A Maximum Load
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These boxed power supplies are the perfect choice for installations where you are powering low voltage cameras from one central point.

For ease of installation, the units have either 4 or 8 individually fused outputs plus LED fault indication.

Ordering Codes:

CT4004	24V AC 4A Maximum Load 4 Individual Outputs
CT4008	24V AC 4A Maximum Load 8 Individual Outputs
CT8008	24V AC 8A Maximum Load 8 Individual Outputs
CT8016	24V AC 8A Maximum Load 16 Individual Outputs

GF PRE-BUILT SERIES

Pre-Built External Camera Kits

Cameras

- Double-sided opening
- Hassle-free
- Simple to install
- IP66 housing
- Pre-installed camera and lens combination



Model	TYPE	LENS	INPUT VOLTAGE
GFYCH30P3Z-230	High Resolution Colour	2.9-8.2mm Aspherical Varifocal auto Iris	230V AC
GFYWH702P3Z-230	Wide Dynamic True day/night	2.9-8.2mm Aspherical IR corrected Varifocal auto Iris	230V AC
GFNH405P5Z-230	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	230V AC
GFNH405P5Z-LV24	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	24V AC
GFNH405P5Z-LV12	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	12V DC

Ordering Codes:

GFYCH30P3Z-230	High Resolution Camera and Lens Kit 230V Input Voltage
GFYWH702P3Z-230	Wide Dynamic Camera and Lens Kit 230V Input Voltage
GFNH405P5Z-230	Super High Resolution True Day/Night Camera and Lens Kit 230V Input Voltage
GFNH405P5Z-LV24	Super High Resolution True Day/Night Camera and Lens Kit 24V AC Input Voltage
GFNH405P5Z-LV12	Super High Resolution True Day/Night Camera and Lens Kit 12V DC Input Voltage

GH PRE-BUILT SERIES

Pre-Built External Camera Kits

- Hassle-free
- Simple to install
- IP67 housing
- Fully compatible
- Pre-installed camera and lens combination



Model	TYPE	LENS	INPUT VOLTAGE
GH-YCH30P3Z-230	High Resolution Colour	2.9-8.2mm Aspherical Varifocal auto Iris	230V AC
GH-NH2583Z-230	Super High Resolution True Day/night	2.9-8.2mm Aspherical IR corrected Varifocal auto Iris	230V AC
GH-NH2585Z-230	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	230V AC
GH-NH2583Z-LV12	Super High Resolution True Day/night	2.9-8.2mm Aspherical IR corrected Varifocal auto Iris	12V DC
GH-NH2585Z-LV12	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	12V DC
GH-NH2583Z-LV24	Super High Resolution True Day/night	2.9-8.2mm Aspherical IR corrected Varifocal auto Iris	24V AC
GH-NH2585Z-LV24	Super High Resolution True Day/night	8.5-40mm Aspherical IR corrected auto iris lens	24V AC

Ordering Codes:

GH-YCH30P3Z-230	High Resolution Colour and Lens Kit 230V Input Voltage
GH-NH2583Z-230	Super High Resolution True Day/Night Camera and Lens Kit 230V Input Voltage
GH-NH2585Z-230	Super High Resolution True Day/Night Camera and Lens Kit 230V Input Voltage
GH-NH2583Z-LV12	Super High Resolution True Day/Night Camera and Lens Kit 12V DC Input Voltage
GH-NH2585Z-LV12	Super High Resolution True Day/Night Camera and Lens Kit 12V DC Input Voltage
GH-NH2583Z-LV24	Super High Resolution True Day/Night Camera and Lens Kit 24V AC Input Voltage
GH-NH2585Z-LV24	Super High Resolution True Day/Night Camera and Lens Kit 24V AC Input Voltage

NIGHT VISION CAMERA KITS

Night Vision Mono Kit



The Night Vision Mono Camera Kit incorporates a Ganz monochrome camera, a Computar vari-focal lens, and vari-focal Infra-Red Illumination, all in an environmental housing with integrated bracket and cable management. The kit provides 24-hour surveillance and will cover distances up to 20m+ in total darkness. 0 LUX.

Supplied with PSU.

Ordering Codes:

GH-NVM-2Z Night Vision Mono Kit High Resolution Mono Camera, Lens, Housing, IR Illumination 230V AC input

NIGHT VISION CAMERA KITS

Night Vision Colour/Mono Camera Kit



The Night Vision Colour/Mono camera kit incorporates a Ganz day/night mode camera, a Computar vari-focal lens, and vari-focal Infra-Red Illumination all in an environmental housing with integrated bracket and cable management. The kit provides 24-hour surveillance and will produce high resolution colour images during the day and high resolution mono images in total darkness and will cover distances up to 20m+ in total darkness. 0 LUX.

Supplied with PSU.

Ordering Codes:

GH-NVDN-3Z Night Vision Colour/Mono Kit High Resolution Day/Night Camera, IR Lens, Housing, IR Illumination 230V AC input

- Vandal-resistant
- Flat toughened glass window
- Day/night camera
- 18x and 36x optical zoom
- Protection class IP67
- Built-in wiper unit
- Presets and tours
- Multiple protocols

This new day/night high speed PTZ camera is a continuous rotation 'ruggedised' PTZ unit, sealed to IP67 and designed to be installed in harsh and challenging environments.

The optically flat glass is distortion-free, giving brighter, clearer images at higher zoom ranges, thus allowing more flexible installation in adverse environments.

C-AllView offers multi-protocol flexibility for ease of equipment ordering and compatibility with most popular telemetry systems. It can be mounted using most existing bracketry.

The C-AllView PTZ camera is cast from aluminium, hard anodised and powder coated to protect it from scratching, oxidation or attack from solvents, making it vandal resistant and suitable for most environments. The replaceable front glass window is toughened to take substantial impacts from thrown objects and resist ballistic attacks, and has a wiper to clear dirt and water. It is easy to install, simple to set up, and has excellent picture quality. With the remote operation of the wash and optional wipe facility, the operator can have clear images from the comfort of the control room.



Perfect Partners



Keyboard
Page 60



IR Lamps
Page 46-49

Model	C-ADN2X18PT	C-ADN2X36YPT
TV System	PAL	PAL
Zoom Ratio	18x optical 12x digital 4.1-73.8mm	36x optical 12x digital 3.4-122.4mm
Min Illumination (50%ire)	0.7lux colour 0.01 mono @F1.6	1.4lux colour 0.01 mono @F1.6
Resolution	460TVL	520TVL
Protocols	16 inc Ganz CBC C-Dome Pelco P & D Ikegami Honeywell Baxal DC	16 inc Ganz CBC C-Dome Pelco P & D Ikegami Honeywell Baxal DC
Power Supply	Included 230V AC in	Included 230V AC in
Weight	7kg	7kg
IP Rating	IP67	IP67

Ordering Codes:

C-ADN2X18PT-W C-AllView 18x Optical Zoom Day/Night Camera
c/w PSU, 4" PCD 10meter Umbilical Cord.
Cream Colour

C-ADN2X18PT-B C-AllView 18x Optical Zoom Day/Night Camera
c/w PSU, 4" PCD 10meter Umbilical Cord.
Black Colour

C-ADN2X36YPT-W C-AllView 36x Optical Zoom Day/Night
Camera c/w PSU, 4" PCD 10meter
Umbilical Cord. Cream Colour

C-ADN2X36YPT-B C-AllView 36x Optical Zoom Day/Night
Camera c/w PSU, 4" PCD 10meter
Umbilical Cord. Black Colour

C-VIEW

Fully Functional High Speed Domes



- Day/night
- High resolution (520 TVL)
- Vandal-resistant
- 30x optical zoom
- 32 presets, tour, privacy zone
- RS485 UTP and coax telemetry control
- 360° continuous rotation
- Remote reset and configuration
- Flexible mounting options

Perfect Partners



KBD2
Page 60



IR Lamp
Page 48

The Ganz C-View PTZ dome cameras are sister products to the C-AllView ruggedised units. C-View cameras are vandal-resistant day/night domes and constructed from vandal-resistant die-cast aluminium powder coated to protect them from scratching, oxidation or attacks from solvents and sealed to IP67. They are designed for installation in harsh and challenging environments.

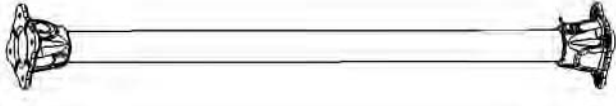




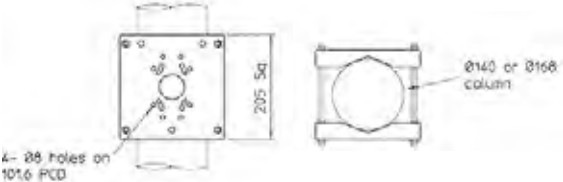
The fully featured C-View includes high resolution (520TVL) camera module and is fitted as standard with a powerful 30x optical zoom. 32 presets are available and also 16 preset tours (8 slow and 8 fast) and 4 mimic tours. Additional features include 15 user definable privacy zones, and an extensive range of built-in protocols to ensure they are compatible with other manufacturers' telemetry systems. Remote dome reset and configuration is also possible, with upload/download of camera settings.

Model	C-DN2F30P	C-DN2X30P
TV System	PAL	PAL
Zoom Ratio	30x optical 12x digital 3.5-105mm	30x optical 12x digital 3.5-105mm
Min Illumination (50%ire)	0.8lux colour 0.04 mono	0.8lux colour 0.04 mono
Resolution	520TVL	520TVL
Protocols	16 inc Ganz CBC C-Dome Pelco P & D Ikegami Honeywell Baxal DC	16 inc Ganz CBC C-Dome Pelco P & D Ikegami Honeywell Baxal DC
Power Supply	Included 230V AC in	Included 230V AC in
Weight	5.8kg	5.8kg
IP Rating	Internal only	IP67

Ordering Codes:

C-DN2F30P	Internal C-View 30x Optical Zoom High Speed Day/Night Dome Camera c/w PSU
C-DN2X30P-W	External C-View 30x Optical Zoom High Speed Day/Night Dome Camera c/w PSU Cream Colour
C-DN2X30P-B	External C-View 30x Optical Zoom High Speed Day/Night Dome Camera c/w PSU Black Colour

The brackets detailed below are suitable for both the C-AllView and the C-View range of cameras.

	Pendant mount Pendant Pole mount Bracket for suspending from the top down c/w Lanyard clip (various lengths available on request).
	Swan mount Swan neck bracket ideal for more decorative mounting options for wall pole mounting c/w Lanyard clip.
	Wall mount Wall mounting options for fixing directly to upright locations, c/w Lanyard clip.
	IR mounting These brackets are 180 or 360° circular sandwich plates that fit between the top of a pole and the dome camera. For fitting of IR lamps.
	Corner mount The corner mount unit for connecting the wall bracket when corner mounted.
	Pole clamp The pole clamp unit for connecting the wall bracket when pole mounted.
	Extension cable 20m extension cable for extending umbilical cable supplied with C-AllView.

Ordering Codes:

C-PPM-W	Pendant Pole Mount bracket, White
C-PM-W	Swan Neck Bracket, White
C-WM-W	Wall Mount Bracket, White
PB180	IR Mount Bracket 180°
C-A20P	20 m Extension Cable for C-AllView Pre-plugged
C-CMB-W	Corner mount bracket, white

C-PPM-B	Pendant Pole Mount Bracket, Black
C-PM-B	Swan Neck Bracket, Black
C-CWM-B	Wall Mount Bracket, Black
PB360	IR Mount Bracket 360°
UPCA 1	Universal Pole Clamp Adaptor
C-CMB-B	Corner mount bracket, black

THERMAL IMAGING TECHNOLOGY

Dual Thermal & Optical Camera

For more
information see our
**Technology
Solutions
Brochure**
Call us for details



- Combined thermal and optical camera
- Man detection up to 1000m
- Dual video output
- Solar guard™ automatic sunlight protection
- Fire mode with temperature scale
- High resolution day/night 36x optical camera module
- Spectral response 7-14 microns
- Thermal white hot and black hot control
- Built-in wiper
- Digital zoom on thermal image

Perfect Partners



C-KBD2
Page 60



Radar View
Page 84

The C-AllView thermal unit provides man detection of up to 1000m using thermal technology, and the 36x optical zoom high resolution camera gives high quality video images for normal identification of persons or vehicles.

Sophisticated histogram-based image processing and video output pixel interpolation resolution produces best-in-class image quality at all times.

The thermal camera is unaffected by rain, fog and snow so it is the ideal solution for true 24-hour surveillance. An electronic and mechanical sun protection circuit fitted to the thermal camera ensures that no damage occurs to the product, even when pointed directly at the sun.

The fully integrated thermal/optical unit can also be used to provide accurate temperature indication of fire or thermographic applications with extensive colour overlay options and temperature scale.

The camera is easy to install, simple to set up and gives excellent picture quality. Multiple protocols are loaded as standard and mounting positions are flexible.

Model	C-ATDNX36H
Video output	2x 75ohm 1volt peak to peak (Pal)
Optical sensor	1/4" CCD 530Tvl
Thermal imager	Amorphous Silicon Microbolometre (320x 240 pixel array)
Optical Lens	36x motorised zoom 3.4-122.4mm
Thermal lens	Manual 50', 25' or 12' options Germanium protective window
IP Rating	IP 66
Pan/tilt rotation	Pan rotation Continuous Tilt 290°
Mount type	Upright, Inverted & Tilted
Input Voltage	230V AC to low voltage PSU supplied
Power Consumption	30W max
Weight	7kg

Ordering Codes:

C-ATDNX36H-50 (B) 9Hz Combined Thermal and Optical C-AllView 50' Thermal Lens, Black
 C-ATDNX36H-25 (B) 9Hz Combined Thermal and Optical C-AllView 25' Thermal Lens, Black
 C-ATDNX36H-12 (B) 9Hz Combined Thermal and Optical C-AllView 12' Thermal Lens, Black
 Cream colour and 25Hz licence units available on request

- Dome camera
- Wall or ceiling mount
- 3-axis gimble
- Man detection up to 150m
- Standard video output
- Temperature scale
- Thermal white hot and black hot control
- Digital zoom



The C-THD6050 thermal imaging dome camera provides the perfect solution for adding thermal imaging technology to existing CCTV camera systems. The dome features a unique IR transmissive bubble that is particularly transmissive in the 8-14 micro metre range. The 50° lens allows a detection range of up to 150m and is unaffected by rain, fog and snow, so this is the ideal solution for true 24-hour surveillance.

The image output can be connected to any CCTV monitor or recording device for seamless integration with existing or new systems.

The dome can be either wall or ceiling mounted and with the 3-axis gimble it can be adjusted to look in most directions. With an IP65 rating, it is suitable for most locations.

Perfect Partners



ZC DT6000
Page 24



Monitor
Page 66

Model	C-THD6050
Video output	1x 75ohm 1volt peak to peak (Pal)
Thermal imager	Microbolometer uncooled (320x 240 pixel array)
Spectral Response	8-14 Micro metres
Thermal lens	Manual 50° Germanium
IP Rating	IP65
Mount type	Wall or Ceiling
Input Voltage	12V DC
Power Consumption	5W max
Weight	1kg

Ordering Codes:

C-THD6050 Thermal Imaging Dome Camera 50° Lens
C-THT6050 Thermal Imaging Tube Camera 50° Lens

ZC PT SERIES

Internal & External High Speed Domes



Indoor



Outdoor

- Internal and external versions
- Compact design
- 12x optical zoom
- High sensitivity
- Multi-protocol
- Presets and tours
- Flexible mounting options
- Vandal-resistant

Perfect Partners



ZCA-SC201
Page 61



C-MP4 Range
Page 56

CBC (Europe)'s new high-resolution dome camera is a fully programmable compact PTZ, available in indoor or outdoor mounting options.

A 12x optical zoom provides crystal-clear images and a 1.0 lux sensitivity ensures good performance under even the most demanding conditions.

The ZC-PT212P and the ZC PT212-XT provide the ideal surveillance solution, with high-speed (300°/s) pan speed and tilt control and a variety of programmable functions, including: auto pan, preset patrol tour, cruise tour, auto home position return and auto flip.

Proportional pan/tilt speed to zoom ratio give allows greater control of the dome for tracking and fine adjustment. Over 250 presets, 8 tours and auto pan make operation and control very simple.

The built-in multi-protocol and range of mounting options allows flexibility and expandability in environments with existing infrastructure or equipment.

MODEL	ZC PT212P	ZC PT212P-XT
TV System	PAL	PAL
Sensor	1/4" Super Hyper HAD	1/4" Super Hyper HAD
Zoom Ratio	12x optical 10x digital	12x optical 10x digital
	4-48mm	4-48mm
Resolution	480TVL	480TVL
Protocols	Include Ganz PT Pelco Phillips AD	Include Ganz PT Pelco Phillips AD
Power Supply	12V DC	12V DC
IP Rating	Indoor only	IP65









Ordering Codes:

ZC PT212P Internal 12x Optical High Speed Dome c/w PSU and Surface Mount Bracket
 ZC PT212P-XT External 12x Optical High Speed Dome c/w PSU and Surface Mount Bracket

ZC PT SERIES

Internal & External Accessories

Cameras

<p>Internal flush mount</p> <p>Ordering Codes: ZCA TB200A (flush mount T bar)</p> 	<p>Internal gooseneck arrangement</p> <p>Ordering Codes: ZCA GT200 (gooseneck bracket) ZCA IPA (adapter)</p> 
<p>Internal pendant mount (250mm drop)</p> <p>Ordering Codes: ZCA ST25 (pendant pole 250mm) ZCA IPA (adapter)</p> 	<p>Internal pendant mount (500mm drop)</p> <p>Ordering Codes: ZCA ST50 (pendant pole 500mm) ZCA IPA (adapter)</p> 
<p>Internal wall arrangement</p> <p>Ordering Codes: ZCA GT100 (wall bracket) ZCA IPA (adapter)</p> 	<p>External gooseneck arrangement</p> <p>Ordering Codes: ZCA GT200 (gooseneck bracket) ZCA IPA 2 (adapter)</p> 
<p>Ordering Codes: ZCA CST Corner mount unit</p> 	<p>Ordering Codes: ZCA PWD Pole mount unit</p> 

A wide range of receivers are perfect partners for the ZP-TX series of matrices and transmitters, which, in conjunction with the ZP-TX1500SC 'starcord converter', will allow the control of a wide variety of PT heads. A ZP-RX100 dome interface allows control of many different types of PTZ dome. Specify desired protocol at time of purchase.

Alarms can be added to the system using the ZP-TX1500/AL16, 16 input alarm cards. Up to six of these can be added, providing up to 92 inputs. The alarm cards can be distributed anywhere along the RS485 bus, allowing flexible installation and wiring.

Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

GH FAST RANGE

GH Series External Camera Housing



Housing showing camera/lens (not included)

- Hassle-free and simple to install
- Double side opening
- Anti-vibration camera system
- Cable-managed
- Adjustable sunshield
- Different mounting options
- Prewired with power and video cable

The innovative and stylish design of the Ganz GH Fast housing makes this external camera housing much simpler and easier for the installer.

Access from either side of the housing is possible due to its dual side opening hinges. A hinged lid runs the length of the housing body, allowing room for work during installation of camera and lens.

The GH Fast housing is manufactured from the latest techno-polymer, giving it a rating of IP66 and protection against harmful UV rays. This material also makes the housing vandal-resistant to IK10 EN50102.

Perfect Partners



Lens
Page 4



ZC-Y12PH Range
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Model	GH-FWC230	GH-FWC24	GH-FWC12
Ingress Protection	IP66	IP66	IP66
Input Voltage	230V AC	24V AC	12V DC
Power Consumption	40mA	350mA	700mA
Operating Temperature	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C
Storage Temperature	-30°C ~ +55°C, RH 85% non condensing	-30°C ~ +55°C, RH 85% non condensing	-30°C ~ +55°C, RH 85% non condensing
Maximum Internal Load	20W	20W	20W
Dimensions	128mm(W) x 66mm(H) x 220mm(L), Sunshield 391mm (L)	128mm(W) x 66mm(H) x 220mm(L), Sunshield 391mm (L)	128mm(W) x 66mm(H) x 220mm (L), Sunshield 391mm (L)
Weight	Approximately 2.1kg including cables	Approximately 2.1kg including cables	Approximately 2.1kg including cables

Ordering Codes:

GH-FWC230	External Housing Sunshield and Wall Bracket, 230V AC
GH-FWC24	External Housing Sunshield and Wall Bracket, 24V AC
GH-FWC12	External Housing Sunshield and Wall Bracket, 12V DC

GH SERIES

External Camera Housing

Hardware

- Complete housing including wall mounting brackets with pivot head, sunshield and heater
- Prewired with power and video cable
- Simple installation and positioning of the camera
- Anti-reflective front glass
- IP67
- IP68 available on request



GH housings are designed to accommodate most common lens/camera combinations. These include the 10x varifocal and 6x zoom lens from **computar**.

GH housings are rated as standard to IP67, making them suitable for use in the most demanding of weather conditions. If this is not enough, an IP68 housing can be supplied on request. The central body of the housing and the sunshield are made from die cast aluminium, the front and rear of the housing are produced from reinforced techno-polymer fibreglass.

Perfect Partners



Cameras
Pages 14-38



Lenses
Pages 4-12

MODEL	GH-230 KIT	GH-24 KIT	GH-12 KIT
Water Resistance	IP67	IP67	IP67
Input Voltage	230V AC	24V AC	12V DC
Housing Weight	1690g	1690g	1690g
Bracket Weight	460g	460g	460g
Power Consumption	40mA	350mA	700mA
Operating Conditions	-20 to 50°C, relative air humidity 99% non-condensing	-20 to 50°C, relative air humidity 99% non-condensing	-20 to 50°C, relative air humidity 99% non-condensing
External Dimensions	142mm(W) x 142mm(H) x 395mm(D)	142mm(W) x 142mm(H) x 395mm(D)	142mm(W) x 142mm(H) x 395mm(D)
Internal Dimensions	77.92mm(W) x 81.5mm(H) x 203.5mm(D)	77.92mm(W) x 81.5mm(H) x 203.5mm(D)	77.92mm(W) x 81.5mm(H) x 203.5mm(D)

Ordering Codes:

- GH-230KIT External Camera Housing and Wall Mounting Brackets, 230V
 GH-24KIT External Camera Housing and Wall Mounting Brackets, 24V
 GH-12KIT External Camera Housing and Wall Mounting Brackets, 12V

CH & CHOV-II HOUSINGS

Small & Medium Housings



Bracket not included

- Indoor/outdoor installation
- Snap-on sunshield
- Cable-managed options (CHEB-II)
- Slide extractable body with hinged system
- Aluminium

These stylish environmental housings are designed to make installation and servicing easier. The housings have an innovative opening system that allows access to the housing's interior; the body and the sunshield slide forward and hang in place, while the unit remains fixed, allowing access to the camera from all angles. This can be done from either side for rapid installation and easy adjustment. The body is made of die-cast aluminium and the sunshield of ABS material. It is ideal for all weather conditions.

Model	CHEM-II	CHEB-II
Water Resistance	IP66	IP66
Colour body	CBC Grey, Sunshield - RAL 9002	CBC Grey, Sunshield - RAL 9002
Cable glands	2	3
Internal Dimensions (W x H x D) mm	65 x 70 x 300	90 x 85 x 330 (useable area)
External Dimensions (W x H x D) mm	113 x 104 x 405	144 x 135 x 410
Weight	1.9kg	2.85kg

Ordering Codes:

CHEM	IP66 External Housing, 230V Input	CHEB-II	IP66 External Housing, 230V Input
CHEM 12	IP66 External Housing, 12V DC Input	CHEB-II/12	IP66 External Housing, 12V DC Input
CHEM 24	IP66 External Housing, 24V AC Input	CHEB-II/24	IP66 External Housing, 24V AC Input



- Easier installation (side opening)
- Indoor/outdoor installation
- Integrated wiper option
- Wall and ceiling mount options (internal and external)
- Aluminium
- Different mounting options

This housing's side opening means quicker access to the lens, camera and its connections.

The body is made of aluminium and the sunshield of ABS material. Its IP66 weatherproof features means the housing is ideal for all weather conditions.

The CHOV-II can be supplied with an integrated self-parking wiper (optional). A standard bracket or a cable-managed bracket can be supplied with the housing.

Model	CHOV-II
Water Resistance	IP66
Colour body	CBC Grey, Sun shield - RAL 9002
Operating Temperature	-20°C ~ 50°C (with heater)
Internal Dimensions (W x H) mm	100 x 70 (useable area)
External Dimensions (W x H x L) mm	115 x 163 x 514
Weight	2.54kg

Ordering Codes:

CHOV II	IP66 External Housing 230V AC Input	CHOV II /12-24V	IP66 External Housing 12-24V Input
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TPSK-II & TPSC

Vandal-resistant Housings

Hardware

- Sheet metal construction
- Vandal-resistant
- Key lock
- Adjustable camera bracket included
- No external screws
- Epoxy powder coat RAL9002



Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

Vandal-resistant ceiling camera housings are designed for surveillance in places highly exposed to vandalism, such as underground parking areas, train and bus stations, prisons, etc.

The ceiling mountable TPSK unit is made of heavy-duty, 2.5mm thick steel sheet and its vandal-resistant glass window (4mm thick) is made of polycarbonate.

The TPSC is made of steel sheet 1.5mm thick and its vandal resistant glass window (4mm thick) is made of PMMA. The unit is ceiling mountable.



MODEL	TPSK-II	TPSC
Vandal Resistant	Yes	Yes
Steel Sheet Thickness	2.5mm	1.5mm
Glass Type	Polycarbonate	PMM
Colour Body	RAL 9002	RAL 9002
Key Lock	Yes	Yes
Heater Temperature On	< 15°C +/- 3°C	< 15°C +/- 3°C
Temperature Off	< 22°C +/- 3°C	< 22°C +/- 3°C
Heater Consumption	In 12V DC/24V AC, consumption 20W/ IN 115/230V AC, consumption 40W	In 12V DC/24V AC, consumption 20W/ IN 115/230V AC, consumption 40W
Camera Power Supply	In 100-240V AC, 50/60Hz Out 12V DC, 1A max In 230V AC, 50Hz Out 24V AC, 400mA max	In 100-240V AC, 50/60Hz Out 12V DC, 1A max In 230V AC, 50Hz Out 24V AC, 400mA max
Dimensions (W x H x L)mm	386.5 x 178 x 187	354.5 x 178 x 155
Weight	6.3 kg	3.5 kg

Ordering Codes:

TPSK-II Vandal-resistant Housing, Wedge Style

TPSC Vandal-resistant Housing, Wedge Style

610-615 RANGE

Pan & Tilt Units



- IP68
- AC or DC version
- Simple installation
- Suitable for all CCTV housing
- High accuracy

These pan and tilt heads are designed to the highest quality and performance standards. Precision engineering culminates in a product line that is extremely compact and robust with certification to IP68.

A high load carrying ability with regenerative breaking for rapid deceleration ensures that precise control is always available. Backlash is a mere 0.15°.

The precision engineering of these units make them a very stable mounting platform for your CCTV camera fitted with high zoom ratio lenses.

These pan and tilt units are designed to make the installation as simple and as easy as possible. Once installed, they require little or no maintenance.

The pan and tilt units are also available as AC or DC options, with or without presets and side mount (SM) or over the top (OTT).

The mounting plates of the units have been designed to fit a standard 4" PCD. This standard mount allows for easy fitting of column spacers, mounting brackets etc. (supplied separately).

These models are typically used for town centre surveillance, border control, ports, traffic surveillance or almost anywhere high load capabilities are required.

The most popular pan and tilt options are listed below but please contact us for any variation of these that you require.

Perfect Partners



Column Spacers

900 Housing
Page 45

MODEL	615/48/12/OTT	610/12/6/OTT
Operating Voltage	24V DC	230V AC
Max Load (nominal)	12kg	12kg
Pan Speed (max)	48° variable	12° fixed
Tilt Speed (max)	12° variable	6° fixed
Housing Mount	Over the top For Preset please add (P) after 615 or 610 ie 615/48/12/OTT For Side mount please change (OTT) to (SM) ie 615/48/12/SM	Over the top For Preset please add (P) after 615 or 610 ie 615/48/12/OTT For Side mount please change (OTT) to (SM) ie 615/48/12/SM
Accessories:		
Column spacer	700 (150mm)	702 (300mm)
Wall bracket	704 (for above pan/tilt motors)	704 (for above pan/tilt motors)
Corner bracket	706 (for 704 wall bracket)	706 (for 704 wall bracket)
IR Mount	600DER	600DER

Ordering Codes:

615/48/12/OTT Over the Top Pan/Tilt Unit, DV Version
610/12/6/OTT Over the Top Pan/Tilt Unit, AV Version

900 SERIES

External Camera Housings

Hardware

- Easy installation
- IP66
- Optional wash unit
- Voltage options
- 3 entry glands

The 900 series of environmental camera housings are designed to accommodate most camera and lens combinations, including the **computar** H30Z 30:1 range of CCTV lenses.

The housings are made of aluminium with stainless steel fittings and fastenings. This style of construction gives them an environmental rating of IP66 and makes them a perfect match for the 615 and 610 series of pan & tilt heads.

The housings come in either 230V AC or 24V AC and can also be supplied with an integral wiper assembly unit, again in various voltages.



900 Housing
without wiper

900/950 Housing
& wiper complete

Perfect Partners



30:1 Zoom Lens
Page 10



Pan & Tilt Unit
Page 44

Model	900EH	900/950EH
Operating Voltage	230V AC, 110V AC, 24V AC, 24V DC	230V AC, 110V AC, 24V AC, 24V DC
Heater (max)	32W	32W
Weight	<3.5kg	<4.0kg
Integral self-park wiper	N/A	Yes
Voltage options	24V AC or 230V AC	24V AC or 230V AC
Internal dimensions (W)x(H)x(L)mm	150 x 155 x 510	150 x 155 x 510

Ordering Codes:

900EH-(230V)	Extended Height Housing 510x140x155 230V AC
900EH-(24V)	Extended Height Housing 510x140x155 Internal Dimensions Include 32W Heater and Paxolin Camera Plate 24V AC/DC
900/950EH-(230V)	Extended Height Housing/wiper Combination 510x140x155 230V AC
900/950EH-(24V DC)	Extended Height Housing/wiper Combination 510x140x155 24V DC
900/WASH	Wash Unit for 900 Housing Range

IR 30i SERIES INTEGRATED INFRARED ILLUMINATION

Short- to Medium-range Integrated IR Illuminators



- Integrated photocell
- 12/24V input
- Easy installation
- Low running cost
- Low energy consumption
- Low maintenance
- Outstanding night-time images
- Long life expectancy, 10 years
- High power latest LED technology
- Even output illumination
- Zero light pollution
- Vandal-resistant
- Wall bracket included

Perfect Partners



IR Lens
Page 4



ZC-NH258P
Page 14

The IR 30i range of integrated LED infrared illuminators come complete with the photo cell within the lamp. The units require 12V DC or 24V AC input from any suitable power supply (not provided). The units have been designed for short- to medium-range applications and are ideal for car park and office locations.

They are very easy to install – just apply voltage and the unit will operate. With the polycarbonate lens, the units are vandal-resistant and suitable for installations in hostile environments. A standard wall bracket is supplied.

The high efficiency LEDs deliver excellent night-time pictures, outstanding reliability and long life, and require low maintenance.

The IR 30i series come in a range of different fixed beam angles. Each unit is fitted with a Cool Running™ thermal management system to control LED output.



ENERGY SAVING

Model	IR30i/30	IR30i/60	IR30i/120
Max Distance	30m	20m	10m
Angles Available	30°	60°	120°
Wavelength	850nm	850nm	850nm
Dimensions (WxHxD)	100x75x50	100x75x50	100x75x50
Weight	1kg	1kg	1kg
Input Voltage	12V DC/24V AC	12V DC/24V AC	12V DC/24V AC
Power consumption	10Wmax	10Wmax	10Wmax
Ingress Protection	IP66	IP66	IP66

Ordering Codes:

IR30i/30	IR30i 30° Fixed Angle of Infrared Illumination
IR30i/60	IR30i 60° Fixed Angle of Infrared Illumination
IR30i/120	IR30i 120° Fixed Angle of Infrared Illumination

IR 50/100 SERIES OF INFRARED ILLUMINATION

Short- to Medium-range IR Illuminators

Hardware

- Low running cost
- Low energy consumption
- Low maintenance
- Outstanding night-time images
- Long life expectancy, 10 years
- High power latest LED technology
- Even output illumination
- Zero light pollution
- Polycarbonate front glass
- Wall bracket included
- PoE version available (IR50 PoE only)
- Low voltage version available
- Platinum power boost available



IR50



IR100

Perfect Partners



GH Fast Housing
Page 40



ZC NH405 Camera
Page 15

The IR 50 and IR 100 short- and medium-range LED infrared illuminators provide high performance, long life and low maintenance. They incorporate surface mount, high output, high efficiency LEDs to deliver excellent night-time pictures and outstanding reliability.

The IR 50 come in a range of different fixed beam angles. IR 100 is equipped with Varifocal Illumination™, allowing the angle of light projection to be altered between 20° and 180° to fit the specific installation's demands. Each unit is fitted with a Cool Running™ thermal management system to control LED output and has a projected working life of 10 years.



ENERGY SAVING

Model	IR 50	IR 100
Max Distance	20m	40m
Angles Available	30° 50° 120°	20-60°, 50-100°, 120-180°
Wavelength	850nm (940nm available on request)	850nm (940nm available on request)
Dimensions (WxHxD)	75x100x50mm	155x100x50mm
Weight	1kg	1.7kg
Voltage	100-240V AC to Power Supply	100-240V AC to Power Supply
Power consumption	10Wmax	25Wmax
Ingress Protection	IP66	IP66

Ordering Codes:

IR50/30 IR50 30° Fixed Angle of Infrared Illumination
 IR50/50 IR50 50° Fixed Angle of Infrared Illumination
 IR50/120 IR50 120° Fixed Angle of Infrared Illumination

IR100/20-60
 IR100/50-100
 IR100/120-180

IR100 20-60° Varifocal Infrared Illumination
 IR100 50-100° Varifocal Infrared Illumination
 IR100 120-180° Varifocal Infrared Illumination

IR 300/500 SERIES OF INFRARED ILLUMINATION

Medium- to Long-range IR Illuminators



- Low running cost
- Low energy consumption
- Low maintenance
- Up to 180° coverage
- Outstanding night-time images
- Long life - 10 years
- High power latest LED technology
- Even output illumination
- Zero light pollution
- Polycarbonate front glass
- 10° version option covering up to 300 metres
- Wall bracket included
- Low voltage version available
- Platinum power boost available

Perfect Partners



IR lens
Page 4



Day/night Camera
Page 14

The IR 300 and IR 500 LED infrared illuminators are designed to work in conjunction with fully functional domes and cameras including monochrome or colour/mono cameras. Both models incorporate surface mount, high output, high efficiency LEDs to deliver excellent night-time pictures with improved optical output and outstanding reliability.

IR 300 and IR 500 are equipped with Varifocal Illumination™, allowing the angle of light projection to be altered between 20° and 180° as required. Each unit is fitted with a Cool Running™ thermal management system to manage LED output and LED life, providing a projected working life of 10 years.



ENERGY SAVING

Model	IR 300	IR 500
Max Distance	96m	300m
Angles Available	10-20°, 20-60°, 50-100°, 120-180°	10-20°, 20-60°, 50-100°, 120-180°
Wavelength	850nm (940nm available on request)	850nm (940nm available on request)
Dimensions (WxHxD)	205x135x60mm	275x180x66mm
Weight	2.5kg	4kg
Voltage	100-240V AC to Power Supply included	100-240V AC to Power Supply included
Power consumption	50Wmax	80Wmax
Ingress Protection	IP66	IP66

Ordering Codes:

IR300/10-20	IR300 10-20° Varifocal Infrared Illumination	IR500/10-20	IR500 10-20° Varifocal Infrared Illumination
IR300/20-60	IR300 20-60° Varifocal Infrared Illumination	IR500/20-60	IR500 20-60° Varifocal Infrared Illumination
IR300/50-100	IR300 50-100° Varifocal Infrared Illumination	IR500/50-100	IR500 50-100° Varifocal Infrared Illumination
IR300/120-180	IR300 120-180° Varifocal Infrared Illumination	IR500/120-180	IR500 120-180° Varifocal Infrared Illumination

IR 400/750 SERIES OF INFRARED ILLUMINATION

Ultra Long-range Wide Angle IR Illuminators

Hardware

- Low running cost
- Low energy consumption
- Low maintenance
- Up to 180° coverage
- Outstanding night-time images
- Ultra long range and wide angle
- High power latest LED technology
- Even output illumination
- Zero light pollution
- Polycarbonate front glass
- Wall bracket included
- Low voltage version available
- Platinum power boost available



IR750

IR400



Perfect Partners

The IR750/50180 and IR400/50180 are high power LED infrared illuminators incorporating surface mount, high output, high efficiency LEDs to deliver excellent night-time pictures with improved optical output and outstanding reliability.

Both units are designed for wide angle and dome applications including the C-AllView, and cover distances up to 100m at 180°.

A Cool Running™ thermal management system controls LED output and has a projected working life of 10 years.

The power supply has control features including adjustable power output, photocell and telemetry control.



C-View Dome
Page 34



C-AllView camera
Page 33

Model	IR 400	IR 750
Max Distance	70m	150m
Angles Available	50-180°	50-180°
Wavelength	850nm	850nm
Dimensions (WxHxD)	320x135x60mm	415x180x66mm
Weight	3.5kg	6kg
Voltage	100-240V AC to Power Supply included (low voltage option available)	100-240V AC to Power Supply included (low voltage option available)
Power consumption	75Wmax	120Wmax
Ingress Protection	IP66	IP66

Ordering Codes:

IR400/50-180 IR400 50-180° Varifocal Infrared Illumination
IR750/50-180 IR750 50-180° Varifocal Infrared Illumination



ENERGY SAVING

HB 150/350 SERIES OF DUAL LED ILLUMINATION

Combined Infrared & White Light LED Illuminators



HB 150



HB 350

- Infrared for camera
- White light general lighting
- Low running cost
- Low energy consumption
- Low maintenance
- Up to 180° coverage
- Outstanding night-time images
- High power latest LED technology
- Even output illumination
- Polycarbonate front glass
- Wall bracket included
- Alarm triggered
- Timer option

Perfect Partners



ZC-NH258P
Page 14



ZC-NH405P
Page 15

These unique lamps offer dedicated infrared for CCTV illumination and white light to light up areas for staff safety using a combination of different LED technology.

The HB150 and HB350 series combine IR and white LED technology. They are perfect for installations where constant IR lighting is desired for camera operation but constant white light is not desired so light pollution can be minimised.

The white light can be triggered and used as a visual deterrent to criminals, as once the light is on they know that they have been watched. It can also be used to aid staff by illuminating areas and walkways.

The units are controlled by electronic photo cells to eliminate the operation during daylight hours but once the area is in darkness the IR will automatically illuminate and the white light is ready to be triggered by external PIRs or alarm devices. This is a simple and effective solution for both CCTV and pedestrian lighting.

Model	HB150	HB350
Max Distance	40m IR & 20m WL	90m IR & 30m WL
Angles Available	50-100° IR 50° WL	50-100° IR 50° WL
Wavelength	850nm for IR	850nm for IR
Dimensions (WxHxD)	245x100x50mm	310x135x60mm
Weight	2.6kg	3.5kg
Voltage	100-240V AC to Power Supply included	100-240V AC to Power Supply included
Power consumption	35Wmax	80Wmax
Ingress Protection	IP66	IP66

Ordering Codes:

HB150/50-180 HB150 Varifocal Illumination Combined White Light and Infrared
HB350/50-180 HB350 Varifocal Illumination Combined White Light and Infrared



ENERGY SAVING

WL RANGE OF LED ILLUMINATION

White-light Range of LED Illuminators

Hardware

- Platinum power boost on all models
- Low running cost
- Low energy consumption
- Low maintenance
- Up to 180° coverage
- Ultra long range and wide angle
- High LED technology
- Even output illumination
- Polycarbonate front glass
- Low voltage version available



Designed for use with colour or day/night cameras, the energy-efficient WL 50, WL100, WL 300 and WL 500 white-light LED illuminators provide high performance, long life and low maintenance. Each model incorporates surface mount, high output, high efficiency LEDs delivering excellent night-time pictures with improved optical output and outstanding reliability.

WL units provide colour-corrected white-light and can be used to provide CCTV lighting together with pedestrian and ambient lighting from a single light source. Each unit includes varifocal illumination, allowing the angle of light projection to be altered to fit the specific demands of an installation.

Perfect Partners



ZC-Y12 Series
Cameras
Page 17



ZC-NH258P
Page 14



ENERGY SAVING

Model	WL50	WL100	WL300	WL500
Max Distance	25m	60m	120m	200m
Angles Available	30°, 50°, 120° (non V-F)	10-20°, 20-60°, 50-100°, 120-180°	10-20°, 20-60°, 50-100°, 120-180°	10-20°, 20-60°, 50-100°, 120-180°
Wavelength	White Light	White Light	White Light	White Light
Dimensions (WxHxD)	75x100x50	155x100x50	201x135x60	275x180x66
Weight	1kg	1.7kg	2.5kg	4kg
Voltage	100-230V AC to Power Supply included	100-230V AC to Power Supply included	100-230V AC to Power Supply included	100-230V AC to Power Supply included
Power consumption	10Wmax	25Wmax	50Wmax	80Wmax
Ingress Protection	IP66	IP66	IP66	IP66

Ordering Codes:

WL50/30 WL50 30° Fixed Angle of Illumination
 WL50/50 WL50 50° Fixed Angle of Illumination
 WL50/120 WL50 120° Fixed Angle of Illumination

WL300/20-60 WL300 20-60° Varifocal Illumination
 WL300/50-100 WL300 50-100° Varifocal Illumination
 WL300/120-180 WL300 120-180° Varifocal Illumination

WL100/20-60 WL100 20-60° Varifocal Illumination
 WL100/50-100 WL100 50-100° Varifocal Illumination
 WL100/120-180 WL100 120-180° Varifocal Illumination

WL500/20-60 WL500 20-60° Varifocal Illumination
 WL500/50-100 WL500 50-100° Varifocal Illumination
 WL500/120-180 WL500 120-180° Varifocal Illumination

WL/IR LED DISTANCE TABLES

Lenses

WL50	(Metres)	
WL50/30	30', White-Light	20
WL50/50	50', White-Light	14
WL50/120	120', White-Light	8

WL400 - Varifocal Triple Panel	Narrow (M)		Wide (M)
WL400/1020	10-20', White-Light	150	84
WL400/2060	20-60', White-Light	80	46
WL400/50180	50-180', White-Light	55	32

Cameras

WL100 - Varifocal	Narrow (M)		Wide (M)
WL100/1020	10-20', White-Light	60	42
WL100/2060	20-60', White-Light	40	28
WL100/50100	50-100', White-Light	28	18
WL100/120180	120-180', White-Light	12	8

WL500 - Varifocal	Narrow (M)		Wide (M)
WL500/1020	10-20', White-Light	200	140
WL500/2060	20-60', White-Light	105	74
WL500/50100	50-100', White-Light	80	56
WL500/120180	120-180', White-Light	30	21

Hardware

WL300 Varifocal	Narrow (M)		Wide (M)
WL300/1020	10-20', White-Light	120	84
WL300/2060	20-60', White-Light	65	46
WL300/50100	50-100', White-Light	45	32
WL300/120180	120-180', White-Light	18	13

WL750 - Varifocal Triple Panel	Narrow (M)		Wide (M)
WL750/1020	10-20', White-Light	240	140
WL750/2060	20-60', White-Light	130	74
WL750/50180	50-180', White-Light	90	56

Control Room

IR Series	Achievable Distances (Metres)	
IR30i		
IR30i-30	30', 850nm	30
IR30i-60	60', 850nm	20
IR30i-120	120', 850nm	10
IR50		
IR50/10	10', 850nm	35
IR50/30	30', 850nm	20
IR50/500	50', 850nm	14
IR50/120	120', 850nm	8
IR50/50-940	50', 940nm	10
IR100	Wide	Narrow
IR100/1020	10-20', 850nm	50
IR100/2060	20-60', 850nm	26
IR100/50100	50-100', 850nm	18
IR100/120180	120-180', 850nm	11
IR100/50100-940	50-100', 940nm	12
IR300	Wide	Narrow
IR300/1020	10-20', 850nm	100
IR300/2060	20-60', 850nm	63
IR300/50100	50-100', 850nm	64
IR300/120180	120-180', 850nm	31
IR300/50100-940	50-100', 940nm	39
IR400	Wide	Narrow
IR400/1020	10-20', 850nm	100
IR400/2060	20-60', 850nm	53
IR400/50180	50-180', 850nm	37
IR500	Wide	Narrow
IR500/1020	10-20', 850nm	240
IR500/2020	20-60', 850nm	127
IR500/50100	50-1000', 850nm	89
IR500/120180	120-180', 850nm	51
IR500/50100-940	50-100', 940nm	53
IR750	Wide	Narrow
IR750/50180	50-180', 850nm	100

IP Media & Transmission

Radar Detection

ANPR

Accessories

The above distances are based on achievable distances at date of publication.
Our commitment to consent 'innovation in illumination' may result in increased power output throughout 2008.

STANDARD BRACKETRY (SUPPLIED)

Illuminators are supplied with a varifocal bracket to allow alteration of the beam angle, and a small circular U bracket which allows for up/down and left/right adjustment when fitted to a flat surface. The IR50 and WL50 are provided with a U bracket only.



Standard Bracket

WALL MOUNT

For mounting to a wall, the WB1 wall bracket can be used. The WB1 is a small L shaped bracket which provides up/down and left/right adjustment when used with the standard bracketry on Ganz illuminators.



WB1

PTZ MOUNT

The best solution for mounting with PTZ cameras is a flat sandwich bracket that fits between the camera housing and the PTZ motor. This bracket can have either one protruding arm for single unit installations (SB1), or two protruding arms for twin unit installations (DB2).



SB1



DB2

DOME MOUNT

CBC provide the PB-180 and PB-360 brackets for mounting with dome cameras. These brackets are 180° or 360° circular sandwich plates that fit between the top of a pole and the dome camera. The PB-180 and PB-360 have 2" PCD and 4" PCD mounting connections.



PB-180



PB-360

POLE CLAMP MOUNT

For installations requiring the IR or WL range of LED lights to be clamped to a pole, CBC can supply the PBC-1 bracket. This comes with Jubilee clips for clamping to poles with a diameter of between 45mm and 170mm and has mounting holes that perfectly match the various standard, supplied bracketry of the entire IR and WL range.



PBC-1

Ordering Codes:

PB-180	Dome Mount Bracket - 180°	WB1	Wall Bracket
PB-360	Dome Mount Bracket - 360°	SB1	PTZ Bracket, Single Unit Application
PBC-1	Pole Clamp Bracket	DB2	PTZ Bracket, Twin Unit Application



rear view

- High quality real-time display and recording to max 400fps PAL, 480fps NTSC
- Modified MPEG4 compression
- Resolution, fps and quality settings configurable for each individual channel
- Post-event motion search and 'object watch'
- Simple-to-use 'timeline' search function for viewing recordings
- Multi-protocol PTZ telemetry control
- POS input
- E-mail notification of events and alarms
- Highly user friendly, intuitive graphical user interface
- Event archiving via USB, HDD, CD / DVD writer, NAS
- Watermark function
- Licence-free client software

Perfect PartnersVSolP Video Wall
Page 60

The ZR-DHC series encompasses 32-channel, 16-channel and 8-channel models. They are PC based real-time recording and display DVRs that combine the ease of use of a PC interface with the reliability of a traditional DVR.

The DVR has advanced functionality including the possibility to search for motion events retrospectively – 'object watch'. Typically, an area or 'object' can be highlighted and the system will search for motion in the area and detect if the object has been removed. With the addition of a third party interface, the DVR can add a text datastream (typically a POS till system), allowing the data to be synchronised with the video and allowing the function to search for a till transaction and the associated video to be viewed along with the data.

The DVR can be viewed and controlled either by a web browser or, for extended functions, via the free GMS (Ganz management software). These have the option for user-level password access.

Back-up of data is easy and a number of file options are offered. Still images can be backed up in the form of JPEG or bitmap files. Video can be backed-up in original DVR format to be viewed in the client software, in SFX format, (which includes an auto-player to be played on any PC), or in AVI format, which can be played in any standard windows media player.

Model	ZR-DHC3230NP	ZR-DHC1630NP	ZR-DHC830NP
Compression System	Modified MPEG4		
Archive	Internal CD / DVD drive, External USB or IEEE 1394 Firewire, NAS		
Video Input / Loop out	32 ports 1.0Vp-p 75 ohm BNC	16 ports 1.0Vp-p 75 ohm BNC	8 ports 1.0Vp-p 75 ohm BNC
Video Output	CVBS 1 Port (1 BNC), VGA, 2 full SPOTs - 1.0Vp-p 75 ohm BNC		
Audio In/Out	32 ports	16 Ports	8 ports
	(Inputs sampling rate: 8KHz Mono), 1 Port output.		
Max PPS	PAL: 400fps@ 352x288	PAL: 400 fps@ 352x288	PAL: 200fps@ 352x288
Max Resolution		PAL: 704x576, NTSC: 704x480	
Ethernet	1x 100/1000 Base-T Ethernet RJ45 connection		
PTZ	Multi protocol: Pelco P & D, BBV, Vicon, Kalatel, Sensormatic and more .		
Remote Control	GMS Remote management software supplied free.		
External Dimensions	430(W) x 460(L) x 176(H) mm		
Input Voltage/Consumption	AC 110 / 240V 50 / 60Hz input, 300Watt selectable		
Max HDD	Default: 1pc. 3.5 inch SATA drive for OS Expansion storage: up to 4pcs, 3.5 inch IDE or SATA drive internal and externally expandable storage via IEEE 1394 Firewire connection.		

ZR-DHD SERIES

9 & 16 Channel Digital Recorders with Built-in DVD Writer

Control
Room

- Triplex+
- Wavelet compression
- Networkable
- Multi-protocol PTZ telemetry control
- Remote control via optional C-KBD2 keyboard
- Expandable external storage
- Event archiving via USB, firewire, TCP/IP
- Built-in CD / DVD writer
- Licence-free client software
- VSoIP compatible



Lenses

Cameras

Hardware

The ZR-DHD series of 9 & 16 channel DVRs combine many features found in high-end DVRs while maintaining a simple user interface and system setting menu to appeal to the requirements of small and medium-sized installations. This Triplex+ DVR allows the user to enjoy simultaneous play, record, multi-screen viewing and remote view and record over a TCP/IP network.

Features of this highly versatile DVR solution include: manual, event and scheduled recording; individual camera settings for record speed and resolution; 14x14 grid motion detection configurable for each camera; multi-protocol PTZ camera control; pre-and post-alarm recording; CD/DVD/USB and HDD archiving options.

The DVR has internal space for 3 HDDs and can be connected to up to 20 additional external HDDs via the high speed Firewire port.

The free Ganz client software provided with the DVR is the network and administration program allowing connection to both 9 and 16 channel DVRs. It can display up to 64 screens from up to 4 DVRs connected via the network simultaneously. Full control of all DVR functions can be achieved remotely with the C-KBD2 keypad, from typically several metres away with a standard cable connection or over 500m with a dedicated cable run.

Perfect Partners



Keyboard
Page 60



External Storage

Control
Room

IP Media &
Transmission

Radar
Detection

ANPR

Accessories

Model	ZR-DHD921NP	ZR-DHD1621NP
Compression System	Wavelet	Wavelet
Archive	Internal CD / DVD drive, External USB or IEEE 1394 Firewire	Internal CD / DVD drive, External USB or IEEE 1394 Firewire
Video Input / Loop out	9x Composite 1.0Vp-p 75 ohm BNC	16x Composite 1.0Vp-p 75 ohm BNC
Video Output	1x main & 1x SPOT Composite 1.0Vp-p 75 ohm BNC, 1x S-Video Y: 1.0Vp-p, C: 0.286Vp-p	1x main & 1x SPOT Composite 1.0Vp-p 75 ohm BNC, 1x S-Video Y: 1.0Vp-p, C: 0.286Vp-p
Audio In/Out	Yes	Yes
Ethernet	Networkable via 1x RJ45, 10/100 Base-T Ethernet	Networkable via 1x RJ45, 10/100 Base-T Ethernet
PTZ	2x Full duplex RS-422 or 1x full duplex RS-422 & 1x half duplex RS485 Multi-protocol (C-DOME, ZC-PT Dome, Pelco P, Pelco D, BBV, AD, Panasonic, Vicon, Philips, Kalatel, 360Vision, Vicon	2x Full duplex RS-422 or 1x full duplex RS-422 & 1x half duplex RS485 Multi-protocol (C-DOME, ZC-PT Dome, Pelco P, Pelco D, BBV, AD, Panasonic, Vicon, Philips, Kalatel, 360Vision, Vicon
Remote Control	Optional Keyboard (C-KBD2 via RS422), Licence free client software, Web browser, Manageable via Ganz VSoIP software	Optional Keyboard (C-KBD2 via RS422), Licence free client software, Web browser, Manageable via Ganz VSoIP software
External Dimensions	432mm(W) x 88mm(H) x 450mm(D)	432mm(W) x 88mm(H) x 450mm(D)
Input Voltage/Consumption	AC 115 / 230V 50-60Hz, selectable	AC 115 / 230V 50-60Hz, selectable
Max HDD	Up to 3x IDE ATA133 (1.5TB maximum), expandable external storage (up to 20 devices) via 1394 Firewire	Up to 3x IDE ATA133 (1.5TB maximum), expandable external storage (up to 20 devices) via 1394 Firewire

Ordering Codes:

ZR-DHD921NP-250 9 Channel Triplex+ DVR, 250GB
 ZR-DHD921NP-500 9 Channel Triplex+ DVR, 500GB
 ZR-DHD1621NP-750 16 Channel Triplex+ DVR, 750GB

ZR-DHD1621NP-1.2TB 16 Channel Triplex+ DVR, 1.2TB
 Other options of hard drives available on request

C-MP4DVR SERIES*MPEG4 Digital Video Recorders*

- Pentaplex operation (simultaneous display, record, playback, backup and network operation)
- Easy to use graphical and multi-lingual OSD interface
- MPEG4 compression
- Networkable
- Optional VGA output
- Search via time/date, motion, alarm
- Expandable external storage
- Event archiving via USB, TCP/IP, built-in DVD writer
- License-free client software
- IR remote control
- VSoIP compatible

Perfect PartnersZC-D4000 Dome
Page 21LCD Monitors
Page 64-65

The C-MP DVR series of 16, 8 and 4 channel MPEG4 Pentaplex DVRs combine the latest MPEG4 compression technology with an easy to use, graphical user interface. The units come with a built-in DVD writer for convenient archiving and internal space for up to 3 HDDs providing up to 1.5TB storage.

The pentaplex functionality (supports simultaneous live display, record, playback, backup and network operations) allows a user to view live images and playback information on the same display whilst backing up previous events. The record process is uninterrupted during this process and up to 5 others can view the DVR via a network at the same time.

The MPEG4 compression format gives you longer recording time, achieving maximum recording efficiency for the available disk space compared with the traditional M-JPEG or Wavelet compression formats without sacrificing any picture quality.

The C-MP series DVRs support manual, timer, motion, alarm and network recording and these can be scheduled to start and stop at any time to provide a highly flexible solution to a user's recording needs.

Model	C-MP416	C-MP408	C-MP404
Compression System	MPEG4	MPEG4	MPEG4
Archive	USB 2.0 Flash Drive; Network remote backup, internal DVD-RW drive	USB 2.0 Flash Drive; Network remote backup, internal DVD-RW drive	USB 2.0 Flash Drive; Network remote backup, internal DVD-RW drive
Video Input / Loop out	16 channels	8 channels	4 channels
Video Output	Main and call monitor output (composite 1.0Vp-p 75 ohm BNC)	Main and call monitor output (composite 1.0Vp-p 75 ohm BNC)	Main and call monitor output (composite 1.0Vp-p 75 ohm BNC)
Audio In/Out	Yes	Yes	Yes
Ethernet	10/100 Base-T, TCP/IP, PPPOE, DHCP, DDNS	10/100 Base-T, TCP/IP, PPPOE, DHCP, DDNS	10/100 Base-T, TCP/IP, PPPOE, DHCP, DDNS
Remote Control	Free, licensed software AP and via Web Browser	Free, licensed software AP and via Web Browser	Free, licensed software AP and via Web Browser
External Dimensions	432mm(W) x 90mm(H) x 326mm(D)	432mm(W) x 90mm(H) x 326mm(D)	375mm(W) x 61mm(H) x 281mm(D)
Input Voltage / consumption	DC 19V, <64W	DC 19V, <64W	DC 19V <42W
Max HDD	Up to 3 internal HDDs (max 1.5TB) or 2 internal HDDs and expand with external disk array	Up to 3 internal HDDs (max 1.5TB) or 2 internal HDDs and expand with external disk array	Up to 3 internal HDDs (max 1.5TB) or 2 internal HDDs and expand with external disk array

Ordering Codes:

C-MP404/250 4 Channel DVD c/w 250GB HDD
 C-MP408/250 8 Channel DVD c/w 160GB HDD
 C-MP416/500 16 Channel DVD c/w 500GB HDD

Other HD sizes available upon request

C-MP404/500 4 Channel DVD c/w 500GB HDD
 C-MP408/500 8 Channel DVD c/w 500GB HDD
 C-MP416/750 16 Channel DVD c/w 750GB HD

C-MP404-LITE

MPEG4 Digital Video Recorders

Control Room

- Pentaplex operation (simultaneous display, record, playback, backup and network operation)
- Easy to use graphical and multi-lingual OSD interface
- MPEG4 compression
- Networkable
- Optional VGA output
- Search via time/date, motion, alarm
- Event archiving via USB, and network
- License-free client software



Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

The C-MP404-LITE DVR offers users a 4-channel DVR that packs a lot of features into a highly affordable unit that is simple to use and install. The multi-lingual OSD user interface ensures ease of operation and is very user-friendly.

The pentaplex functionality (which supports simultaneous live display, record, playback, backup and network operations) allows a user to view live images and playback information on the same display whilst backing up previous events. The record process is uninterrupted during this process and up to 5 others can view the DVR via a network at the same time.

The MPEG4 compression format gives you a longer recording time for a given HD size compared with the traditional MJPEG or Wavelet compression formats, without sacrificing picture quality.

The C-MP series DVRs support manual, timer, motion, alarm and network recording and these can be scheduled to start and stop at any time to provide a highly flexible solution to users' recording needs.

Perfect Partners



ZM-L217E
Page 65



ZC-D4039PHA
Page 21

Model	C-MP404-LITE
Compression System	MPEG4
Archive	USB Flash Drive or Network remote backup
Video Input	4 channels
Video Output	Main monitor output
Audio In/Out	Yes
Ethernet	10/100 Base-T, TCP/IP, PPPOE, DHCP, DDNS
Remote Control	Free, licensed software AP and via Web Browser
External Dimensions	343mm(W) x 59mm(H) x 223mm(D)
Input Voltage	DC 19V
Power consumption	<64W
Max HDD	1HDD internally up to 500GB

Ordering Codes:

C-MP404-LITE/160 4 Channel DVD c/w 160GB HD
 C-MP404-LITE/250 4 Channel DVD c/w 250GB HD
 C-MP404-LITE/500 4 Channel DVD c/w 500GB HD

Other HD sizes available on request

INSTANT REPLAY AND VECORD

Single Channel Solid State Recorders



- Extremely compact design
- Superb image quality
- Super reliability – no hard disk
- No PC, no operating system
- Very simple installation
- All solid-state device
- Wide operating temperature range
- Records onto removable compact flash
- High-resolution recording (720 x 576)
- JPEG2000 image compression
- Playback directly to video monitor or via PC

Perfect Partners



ZC-D5000 Domes
Page 18



ZML(H) Monitor
Page 64

Instant replay and **Vecord** are single-channel digital video recorders for vehicle and control room applications. They are single channel solid-state digital video recorders, recording to standard removable compact flash (CF) memory cards. With CF cards available up to 16GB, the units can store over 200 hours of recordings at full-frame resolution (720 x 576) at 1 fps.

The **Vecord** has been designed for vehicle applications. It can cope with the extreme environments that are common with vehicle recording – for example, vibration, noisy power sources, and extreme heat and cold where normal DVR may fail.

Instant Replay is a superb tool to assist CCTV operators, recording all activity on the spot monitor in real time onto compact flash, with instant reverse playback and event marking features. It is very easy for the operators to find images of interest. Very high quality recorded images may be played back instantly or the card removed and viewed on a PC. Ideal for control room operators to review an incident quickly or print off images for rapid response.

Model	VECORD	INSTANT REPLAY
Input Voltage	External Power Supply 12 to 24V DC power supply	External Power Supply 12 to 24V DC power supply
Power Consumption	7W	7W
Recording Format	NTSC : 720 x 480 PAL: 720 x 576 (4CIF) JPEG 2000 compression	NTSC : 720 x 480 PAL: 720 x 576 (4CIF) JPEG 2000 compression
Dimensions	110mm(W) x 170mm(D) x 33mm(H)	110mm(W) x 170mm(D) x 33mm(H)
Recording times	At 25fps, 20 min / GBytes storage	At 25fps, 20 min / GBytes storage

Ordering Codes:

C-VSS-DP Vecord Single Channel Solid State Vehicle Recorder

C-VSS-SC Instant Replay Single Channel Solid State Recorder

The above units are supplied without Compact Flash cards

CN-VSS12 12V Power Supply for Instant Replay DVR

Compact Flash card available on request 1GB,4GB, 8GB and 16GB

C-MR250USB

Monitor with Built-in 4-channel DVR

Control Room

- 8" high contrast LCD display
- Four-channel integrated DVR
- Picture in picture/multi-language OSD
- Video backup to USB/CDRW/network
- DVD/SD card media player (optional)
- Hard disk tray
- Network function



This monitor/recorder is designed specifically for shop, office or home applications. It combines a high contrast 8" LCD display with a real-time four-channel recorder in one compact unit.

Up to four cameras can be connected simultaneously for continuous recording on the C-MR's built-in hard disk drive. Images can be viewed on the built-in display or output onto an external device. Recorded images may be transferred to USB or CDRW for evidential purposes.

The DVR can record 100 pps using MJPEG compression and has an easy-to-use OSD, which can be driven by an external PS2 or USB (option) mouse.

Perfect Partners



ZC-D4039PHA
Page 21



ZC-L1210PHA
Page 27

Model	C-MR250CDRW	C-MR250MEDIA	C-MR250USB
Video Compression	MJPEG	MJPEG	MJPEG
Video Input	4CH	4CH	4CH
Display Resolution	720 x 540 (NTSC) or 720 x 288 (PAL)	720 x 540 (NTSC) or 720 x 288 (PAL)	720 x 540 (NTSC) or 720 x 288 (PAL)
Recording Rate	Max: 120FPS (NTSC) : 100FPS (PAL)	Max: 120FPS (NTSC) : 100FPS (PAL)	Max: 120FPS (NTSC) : 100FPS (PAL)
Internal Storage	3.5" IDE HDD (HDD) (Hard Disk Optional; Expandable up to 500G)	3.5" IDE HDD (HDD) (Hard Disk Optional; Expandable up to 500G)	3.5" IDE HDD (HDD) (Hard Disk Optional; Expandable up to 500G)
Video Input Format	NTSC or PAL	NTSC or PAL	NTSC or PAL
Backup Device	CD-RW	USB mass-storage device (Backup; F/W Upgrade)	USB mass-storage device (Backup; F/W Upgrade)
Display	8" LCD Monitor	8" LCD Monitor	8" LCD Monitor
Dimension	193mm(W) x 182mm(H) x 198mm(D)	193mm(W) x 182mm(H) x 198mm(D)	193mm(W) x 182mm(H) x 198mm(D)
Weight	3.32kg	3.44kg	2.86kg

Ordering Codes:

- C-MR250USB 4 Channel DVR with Built-in 8" Screen and USB Backup
 C-MR250CDRW 4 Channel DVR with Built-in 8" Screen and CD-RW Backup
 C-MR250MEDIA 4 Channel DVR with Built-in 8" Screen and DVD/SD Media Play



- Easy-to-use large format display
- Three fully independent RS485 telemetry control ports
- 3-axis precision joystick
- Jog/shuttle dial for easy DVR control
- Multi-language support
- Upload/download software supplied
- 3 password-protected user levels
- Multi-protocol output

New for 2008, the C-KBD2 keyboard provides user-friendly features for flexible management of matrices, multiplexers, DVRs, speed domes and receivers. It is protected by three levels of passwords.

A wide and bright display screen enables intuitive navigation and control of a CCTV system, with automatic selection of the correct control screen every time a new device is requested.

Keyboard configuration is quick and easy thanks to set-up screens or with the PC upload/download software (supplied). A proportional, three-axis joystick allows for accurate control of speed domes and the movement of P&T units. Fine control of DVRs is achieved using the jog/shuttle dial.

Perfect Partners



C-AllView
Page 33



C-View
Page 34

Model	C-KBD2
Communications	
RS485	3 x independent RS485 simplex (RJ12)
Electrical	
Power requirement	12V DC
External PSU	100-240V AC 47-63Hz 1,25A
Mechanical	
Dimensions	365mm(W) x 113mm(D) x 160mm(H)
Weight	1060 g
Keyboard	Proportional 3 axis joystick Jog/Shuttle dial Rubber keypad
Protocols	
DVR	Ganz (ZR-DHD1621NP), Hitron, Samsung (SHR2160-N)
Matrix	Pelco ASCII (CM6700), Vision 360
Speed dome/Receiver	Ganz (Allview) (C-View), Pelco D, Pelco P, Panasonic (WV-CS960) (WV-CS950) (WV-CS850), JVC (TK-C655E) (TK-C676E), Samsung (VSCC-C6405P), Bosch (TC8560, TC700), Hitron (Fastrax II), Vision 360, BBV
General	
Languages	English, French, German, Italian, Spanish

Ordering Codes:

C-KBD2 Multi protocol keyboard

ZCA-SC201

Dome Control Keyboard

Control Room

- 3-axis joystick control
- Controls PTZ functions
- Preset position and cruise control
- Controls dome cameras, PTZ receivers, multiplexers and DVRs
- Variable rate setting
- RS-485/RS-232C interface



The ZCA-SC201 keyboard can be easily integrated with the full range of Ganz CCTV products, such as a digital video recorder (DVR), PTZ dome camera and other CCTV devices, and includes an RS-485 interface for remote control and system configuration.

A backlit LCD display and 3-axis control joystick ensure user-friendly operation, providing control for up to 223 Ganz ZC-PT domes and 8 DVRs.

The keyboard has 4 built-in protocols:

- Ganz-S (ZC-S series)
- Ganz-PT (ZC-PT series)
- Pelco D
- Pelco P

The built-in firmware upgrade circuits allow users to upgrade the firmware easily via the RS-232 port.

Perfect Partners



ZC-PT Domes
Page 38



ZR-DHD1621NP
Page 55

Model	ZCA-SC201
Dome Control	Manual Pan/Tilt/Zoom, Preset, Sequence, Cruise, Auto Pan, Zoom: Tele/Wide
Camera Lens Control:	
Focus	Near/Far/Auto
Brightness	+/-
Supported Protocols	Pelco D & P, DCSP (Baud Rate Selectable)
General:	
Controller Interface	RS-485
Operating Temperature	0°C~40°C
Power Source	DC 12V
Power Consumption	5W
Dimensions	103 x 330 x 175mm
Weight	1.7 kg

CTR-4000 SERIES*Time Lapse Video Cassette Recorders*

(W)36 x (H) 94 x (D) 270mm

- Forward & reverse playback and frame-by-frame switching
- Timer recording
- Alarm ready even when unit is in standby
- Alarm search facility
- On-screen display

The CTR4000 range of video recorders provide variable time lapse recording speeds of up to 24 hours on the CTR4024 and 960 hours on the CTR4960 onto a single 3-hour video tape.

The VCRs can be programmed to record continuously, to be triggered into recording from standby after an event or alarm, or to switch from a slow time lapse recording speed into 3-hour mode upon an event or an alarm.

The rear push fit connectors on the VCR allow connections for features such as alarms in and out, series recording, malfunction warning, multiplexer sync pulse, low tape warning and one shot recording.

The large display on the front of the VCR shows updates of the exact current settings and the operation mode the VCR is in as well as alerting the user in the event of a recent power failure or alarm.

Perfect Partners

ZC D4000 Domes
Page 21



ZM CR114NP
Page 66

Model	CTR-4024	CTR-4960
TV System	VHS PAL	VHS PAL
VHS Recording	24 hour	960 hour
Resolution	300 TVL (colour) 350 TVL (b/w)	300 TVL (colour) 350 TVL (b/w)
Power Consumption	15W	15W
Dimensions	360mm(W) x 94mm(H) x 270mm(D)	360 x 94 x 270 (W x H x D)
Weight	3.8kg (approx)	3.8kg (approx)

Ordering Codes:

CTR-4024 Time Lapse VCR, 24h
CTR-4960 Time Lapse VCR, 960h

ZP-TX/RX SERIES

Matrix & Telemetry System

Control Room

- 16 – 96 cameras
- 8 monitor outputs
- Simple to expand
- Telemetry control of PTZ via coax or RS485
- Wide range of dome interfaces
- Password protection
- Up to 96 alarm inputs
- Easy to set up on-screen displays
- Telemetry receivers for AC and DC pan and tilts



Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

The ZP-TX1500 matrix system is simple to operate and provides sophisticated features usually found on high-end complex matrix systems. A typical feature is the camera/monitor/keyboard selection set-up, which allows the system to be configured so that cameras can be restricted from certain monitors and keyboards and only specific keyboards can be allowed PTZ control of cameras.

There is a wide range of receivers available that perfectly partner the ZP-TX series of matrices and transmitters, which in conjunction with the ZP-TX1500SC 'starcard converter', will allow the control of a wide variety of PT heads. A ZP-RX100 dome interface allows control of many different types of PTZ dome. (Specify desired protocol at time of purchase.)

Alarms can be added to the system using the ZP-TX1500/AL16, which is a 16-input alarm card. Up to 6 of these can be added, providing up to 96 inputs. The alarms can be distributed anywhere along the RS485 bus, allowing flexible installation and wiring.

Perfect Partners



Zoom Lens
Page 10



ZR-DHD1621NP
Page 55

Ordering Codes:

ZP-TX1500/nn/8	Matrix Unit with 1 Keyboard (nn Denotes (from 16-96) Camera Input Quantity) 8 Monitor Outputs
ZP-TX1500/SC	RS485/RS422 Starcard Converter, Outputs a Wide Range of Industry Protocols
ZP-TX1500/AL16	16 Alarm Input, 2 Alarm Output Card
ZP-RX100/24	Coax Telemetry Dome Interface, Allowing Control of Many of the Industries Domes with 24V AC PSU for Dome
ZP-RX300WBX	Coax Telemetry Receiver for Simple AC P&T, Plus Lens Control

ZP-RX400P	Coax Telemetry Receiver, Fully Featured for AC P&T Plus Lens, Aux Controls and Presets
ZP-RX400DC	Coax Telemetry Receiver, Fully Featured for DC P&T Plus Lens, Aux Controls and Presets
ZP-RX45x/WBX	RS485 (Multi-protocol) Telemetry Receiver, Fully Featured for AC P&T Plus Lens, Aux Controls and Presets
ZP-RX55x/WBX	RS485 (Multi-protocol) Telemetry Receiver, Fully Featured for DC P&T Plus Lens, Aux Controls and Presets



- 15", 17" and 19" models
- SXGA resolution
- PIP (picture in picture) feature
- High contrast ratio
- Fast response time
- Wide viewing angle
- NTSC/PAL auto sensing
- Multiple inputs

Perfect Partners

ZMA WB3
Page 90



ZR-DHC1630NP
Page 54

The ZM-L(H) range of professional 15", 17" and 19" colour LCD monitors offers resolutions up to 1280 x 1024 pixels (SXGA) and a high contrast ratio of up to 800:1. Their features include BNC analogue input with loop-through, VGA and S-Video capabilities to provide various connection options. The monitors' slim design allows them to fit into most working environments.

The panels come with a desk mount stand that can be adjusted to suit your viewing position and allows the monitor to be fitted with any standard 75/100mm VESA accessories. Other features include PIP (picture in picture), NTSC/PAL auto sensing and multi-language OSD control.

MODEL	ZM-L215H	ZM-L217H	ZM-L219H
Video Signal	PAL/NTSC auto mode	PAL/NTSC auto mode	PAL/NTSC auto mode
LCD Display	15" Active Matrix TFT LCD	17" Active Matrix TFT LCD	19" Active Matrix TFT LCD
Display Colour	16.2 M colours	16.7 M colours	16.2 M colours
Response Time	6 ms	4 ms	4 ms
Contrast Ratio (Typ.)	500:1	800:1	800:1
Brightness	250 cd/m2 (TYP.)	300 cd/m2 (TYP.)	300 cd/m2 (TYP.)
Signal Connector: Input	Video BNC In (1.0 Vp-p 75ohm), Audio In, VGA 15 pin min D-SUB In, Y/C In		
Output	Video BNC Buffer Out (1.0 Vp-p 75ohm), Y/C Out, Audio Out		
Audio Speaker	1W (Max)	1W (Max)	1W (Max)
Power Input	DC Input: 12V/4.0A 50/60Hz	DC Input: 12V/4.0A 50/60Hz	DC Input: 12V/4.0A 50/60Hz
Power Consumption	40W	50W	50W
Power Supply	AC 100V/240V	AC 100V/240V	AC 100V/240V
Operating Conditions	Temperature: 0°C ~ 40°C / Humidity: 10% ~ 85%		
Dimensions Net (WxHxD)	353 x 338 x 170mm	375 x 370 x 170mm	420.6 x 405.3 x 170mm
Weight (approximate): Net	4kg	5kg	6.3kg

Ordering Codes:

ZM-L215H 15" Colour TFT LCD Monitor
 ZM-L217H 17" Colour TFT LCD Monitor
 ZM-L219H 19" Colour TFT LCD Monitor

Accessories:

ZMA-RK17 17" Rack Mount Kit
 ZMA-RK19 19" Rack Mount Kit

ZM-L (E) SERIES MONITORS

Commercial Colour TFT LCD Monitors

Control Room

- 15", 17" and 19" models
- High contrast ratio
- Fast response time
- Wide viewing angle
- NTSC/PAL auto sensing
- Multiple language OSD control
- Multiple inputs



The ZM-L "E" series of 15", 17" and 19" commercial LCD monitors offers resolutions up to 1280 x 1024 pixels (SXGA) and a high contrast ratio of up to 800:1 that generates sharper lines and images. All monitors in the ZM-L (E) series have wide viewing angles and incredibly fast response times.

They feature BNC analogue input with loop-through, VGA and S-Video capabilities, providing various connection options. The units are supplied with a lock down desk mount stand that can be adjusted to suit your viewing position and allows the monitor to be fitted with any standard 100mm VESA accessories.

Perfect Partners



ZMA WB3
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ZC-D4000
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Model	ZM-L215E	ZM-L217E	ZM-L219E
Video Signal	PAL/NTSC auto mode	PAL/NTSC auto mode	PAL/NTSC auto mode
LCD Display	15" Active Matrix TFT LCD	17" Active Matrix TFT LCD	19" Active Matrix TFT LCD
Display Colour	16.2 M colours	16.7 M colours	16.7 M colours
Response Time	6 ms	4 ms	4 ms
Contrast Ratio (Typ.)	500:1	800:1	800:1
Brightness	250 cd/m2 (TYP.)	300 cd/m2 (TYP.)	300 cd/m2 (TYP.)
Signal Connector: Input	Video BNC In (1.0 Vp-p 75ohm), Audio In, VGA 15 pin min D-SUB In		
Output	Video BNC Buffer Out (1.0 Vp-p 75ohm), Y/C Out, Audio Out		
Audio Speaker	1W (Max)	1W (Max)	1W (Max)
Power Input	DC Input: 12V/4.0A 50/60Hz	DC Input: 12V/4.0A 50/60Hz	DC Input: 12V/4.0A 50/60Hz
Power Consumption	30W	40W	50W
Power Supply	AC 100V/240V	AC 100V/240V	AC 100V/240V
Operating Conditions	Temperature: 0°C ~ 40°C / Humidity: 10% ~ 85%		
Dimensions Net (WxHxD)	364 x 316 x 170mm	386 x 388 x 170mm	424 x 419 x 170mm
Weight (approximate): Net	4kg	5.2kg	6.1kg

Ordering Codes:

ZM-L215E 15" Colour LCD Monitor
ZM-L217E 17" Colour LCD Monitor

ZM-L219E 19" Colour LCD Monitor

ZM-CR SERIES*Colour Series of CRT Monitors*

- 14", 15" and 21" models
- PAL and NTSC compatible
- Auto loop-through
- High resolution (15" model)
- Multi-language OSD set-up
- Built-in microprocessor digital control
- Y/C input
- Dual voltage 100-240V AC

Model	ZM-CR114NP II	ZM-CR121NP II	ZM-CRH115NP II
CRT	14" Diagonal 90°	21" Diagonal 90°	15" Diagonal 90°
Video Signal	PAL/NTSC	PAL/NTSC	PAL/NTSC
Resolution	400 TVL	580 TVL	800 TVL
Audio In/Out	RCA in x 1 / RCA out x 1, RCA in x 3 / RCA out x 3		
Scanning Frequency	5.625 kHz (PAL), 50Hz / 15.734kHz (NTSC), 60Hz		
Connector	Video BNC in x 1, Y/C in x 1 Video BNC out x 1, Y/C out x 1		Video BNC in x 2, Y/C in x 1 Video BNC out x 2, Y/C out x 1
Power Requirements	100-240V AC	100-240V AC	100-240V AC
Power Consumption	65W	80W	95W
Operating Conditions	Temperature: -10°C ~ +50°C, Humidity: 10% ~ 90%		
External Dimensions in mm (W x H x D)	350 x 350 x 360	492 x 474 x 482	368 x 361 x 376
Weight (approximate)	14kg	27kg	15kg

Ordering Codes:

ZM-CR114NP-II 14" Colour Monitor

ZM-CR121NP-II 21" Colour Monitor

ZM-CRH115NP-II 15" Colour Monitor, High Resolution

CEM-A-II*Mono Series of CRT Monitors*

- 9", 12" and 15" options
- Audio facility on all models
- Desktop case
- Loop-through
- Universal power input 100 - 240V

Model	CEM-09A-II	CEM-12A-II	CEM-15A-II
CCIR/EIA monochrome CRT	9" Diagonal 90°	12" Diagonal 90°	15" Diagonal 90°
Resolution	800 TVL	800 TVL	1000 TVL
Audio In/Out	Yes	Yes	Yes
Power Requirement	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
Power Consumption	20W	30W	35W
Audio	Yes	Yes	Yes
Dimensions in mm (W x H x D)	222x 238 x 250	304x 320x 310	350 x 353 x 360
Weight (approximate)	4.5kg	8.0kg	12.0kg

Ordering Codes:

CEM-09A-II 9" B&W Monitor, 800 TVL, 100-240V AC

CEM-15A-II 15" B&W Monitor, 1000 TVL, 100-240V AC

CEM-12A-II 12" B&W Monitor, 800 TVL, 100-240V AC

PSM-012P

Engineer Test Monitors

Control
Room

- 4" B/W (PSM012-P) flat screen
- Automatic switch into power spare mode when the video signal interrupts
- High resolution display
- 12-hour battery charge time
- Mobile, light and independent from the electric power system



Model	PSM-012P
Operating voltage	12V DC (<333 mA)
Current Consumption	4 W
Video Input	1 x CCIR, 1 Vp-p, 75 Ohm, BNC
Screen	Cathodic tube
Resolution	400 lines
Screen diagonal	10.2cm (4")
Screen Dimensions	81mm(W) x 50mm(H)
Dimensions (W x H x D)	120mm(W) x 230mm(H) x 60mm(D)
Total weight	1850g (with battery/accumulator and bag)
Operating environment	0 ... +50°C (<70% rel. air humidity, non-condensing)
Storage Conditions	-10 ... +60° (<70% rel. air humidity, non-condensing)

ZM-L406P

5.6" Colour TFT LCD Professional Technician's Monitor

- High resolution compact colour test monitor
- Test pattern generator output
- 2 x BNC 1 x audio input with loop-through
- Nylon carry case with accessories
- 2.5 hour long life Li-Po rechargeable battery
- Auto power save function



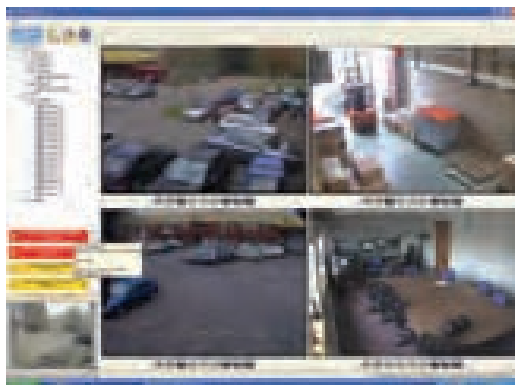
Model	ZM-L406P
LCD Display	Colour 5.6" TFT LCD Panel
Max Resolution	320 x 234 (4:3)
Contrast Ratio	150:1
Brightness	300 cd/m2
Response Time	15 ms
Input	2 x BNC Video Input 1 x 3.5mm stereo audio
Output	1 x BNC Video Output 1 x 3.5mm stereo audio
Audio Speaker	1 Watt (max)
Environmental	0-40°C
Power input	9V DC
Dimensions	256mm(W) x 175mm(H) x 116mm(D)
Rechargeable battery	7.4V 2650mAh Li-Po



Ordering Codes:

ZM-L406P 5.6" Technician's Monitor

Nylon carry case



- True client/server topology
- User-based security
- Server-based maps
- Central alarm handling
- Central audit trail
- Flexible recording configuration
- Network recording
- Stand-alone recording
- Instant and spot recording support
- Export to common VSOIP format
- Management on all operators' screens
- Single and quad views
- Multi-layer map navigation
- Floating video views
- Over-video PTZ control
- Spot recording

Perfect Partners



Video Wall
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IP Cameras
Page 70

The VSOIP Management Suite is an enterprise video management system that will seamlessly manage all your CCTV video across an IP network. The systems architecture allows you to manage your existing analogue systems that are connected to digital video recorders with IP connectivity. It also enables you to connect, install and take advantage of the benefits of the latest IP based security products from Ganz.

The VSOIP Management Suite represents the ideal way to bring your CCTV security into the digital age. The system will manage all your CCTV installation, whether on one site or over 100. Using the power of IP networks on either existing or new systems, the VSOIP management suite gives you total control of all of your CCTV video and gives you the power to view live images, review recorded images from any site, any time, anywhere.

The system design of true client server configuration enables local or national management. Although the VSOIP Management Suite is a true client server application, for smaller installations all the components can be installed on a single, high spec PC. For larger applications multiple VSOIP servers, VSOIP recorders and VSOIP clients can be used. With server-based HTML maps, tailored rights for every operator, integration with third party equipment and multiplatform decoders almost endless system configurations can be achieved, making VSOIP Management Suite the ideal choice for almost any application.

VSOIP Server	VSOIP Manager	VSOIP Recorder
Windows XP Professional (service pk 2) or Windows Server 2003 (service pk 2)	Windows XP Professional (service pk 2)	Windows XP Professional (service pk 2) or Windows Server 2003 (service pk 2)
Intel Pentium 4, 3.2GHz or better	Intel Pentium 4, 3.2GHz or better	Intel Pentium 4, 3.2GHz or better
IP Network infrastructure	IP Network infrastructure	IP Network infrastructure
Microsoft .Net Framework 2.0 & 3.0 + Service Packs	Microsoft .Net Framework 2.0 & 3.0 + Service Packs	Microsoft .Net Framework 2.0 & 3.0 + Service Packs
Internet Explorer 6 with most recent service pack	Internet Explorer 6 with most recent service pack	Internet Explorer 6 with most recent service pack
Wheel mouse	Wheel mouse	Wheel mouse
SQL Express (Optional)	GeForce 7 PCI-Express graphics sub-system, equivalent or better	GeForce 7 PCI-Express graphics sub-system, equivalent or better
Microsoft Direct-X 9c	Microsoft Direct-X 9c	Microsoft Direct-X 9c
Very high performance network card 100/1000base-T	Good performance network card 100/1000base-T	Very high performance network card 100/1000base-T
Standard size/performance hard drive	Standard size/performance hard drive	Very large fast access hard-drive
2GB memory	1GB memory	2GB memory

The VSOIP Management System is the ideal way to bring your CCTV system into the computer age.

By simply adding interface boxes, you can view images from any CCTV camera in a system, whether it is on a wall outside or miles away on another building. VSOIP has been specially developed to have the capacity to work with other manufacturers' systems. It has the potential to make CCTV truly open.

There's no better way to take advantage of the efficiency and cost-effectiveness of IP CCTV.

Typical Problems with Analogue Systems

- Difficult to link more than one site
- Alarm notification is normally local only
- Difficult to retrieve recorded images remotely
- Very difficult to monitor more than one site remotely or a site with more than one location

Typical Solutions of Analogue and IP Systems Run by VSOIP Software

- Multiple site locations
- Multiple remote locations
- Remote control of PTZ cameras
- High speed download of recorded images
- Fully IP compatible
- Multiple locations of alarm response and acknowledgement

VSOIP System Management	VSOIP Recording Management	VSOIP Client Manager
True client/server topology Distributed configuration Distributed redundancy User and group access rights Once configured, the system can be used by all operators User-based security Individual users see only what they are allowed to see PTZ access at a user level Server-based maps Maps configured and stored at the server Map changes are automatically seen by all operators HTML map format makes generation simple and universal Central alarm handling Alarm acknowledgment and response information are shared with all operators immediately Central audit trail Provides full audit trail of the system	Flexible recording configuration Real time Scheduled Time lapse Instant Network recording Locally or centrally Up to 32 streams per server Stand-alone recording Allows scalable recording solutions Instant and spot recording support Unplanned event recording Export to common VSOIP format Unified export regardless of video source Download Remote download or recorded image across the network Review Multiple operator access DVR Multi-screen	Management of screens Manages all operators' screens Single and multi-screens Replication of traditional CCTV viewing stations Multi-layer map navigation True reflection of the installation geography Floating video views User-configurable layout options Combined with maps, this can be very effective Over-video PTZ control Intuitive control of cameras via mouse Dome/PTZ menu access included Pre-set and mimic tours included Spot recording Allows operators to react and capture events outside scheduled recordings Unified export Single export format for all devices Simplifies export and distribution of events

ZN-YH305 IP CAMERA

High Resolution Colour IP Network Camera



- Stylish design
- Real-time MPEG4 compression in VGA resolution
- Scaleable bandwidth
- Power over Ethernet (PoE) built-in
- Digital I/O for external sensor and alarm
- Free bundled 16-channel recording software included
- Integrated omni-directional microphone
- VSoIP compatible

Model	ZN-YH305
Image Sensor	1/4" VGA CMOS
Networking	Protocols TCP/IP, HTTP, SMTP, FTP, DDNS, UPnP, Telnet, NTP, DNS, DHCP, and RTSP Physical 10/100 baseT Fast Ethernet auto negotiation
Video	MPEG4 (simple profile) for streaming video, JPEG for still image
Lens	Fixed focal with fine tuning, 4.0mm, F2.0
Audio	Supports GSM-AMR, AAC compression and audio mute Bit rate: CSM-AMR: 4.75k ~ 12.2k ACC: 16k ~ 128k
Resolution	Up to 30/25 frames @ 160x120, Up to 30/25 frames @ 320x240, Up to 30/25 frames @ 640x480 (increasing band widths)
Sensitivity	1.5Lux @ F2.0
Power	12V DC (802.af Compliant) 27W
Dimensions	160.5mm(L) x 95mm(W) x 48.5mm(H)

Ordering Codes:

ZN-YH305 High Resolution Colour IP Network Camera

ZN-D2024 NETWORK DOME CAMERA

High Resolution Colour IP Network Camera



- Wide angle varifocal board lens
- 3-axis lens adjustment for wall mount application
- Real-time MPEG4 and motion JPEG compression
- Power over Ethernet (PoE) built-in
- Simultaneous dual-stream support
- Digital I/O for external sensor and alarm
- Free bundled 16-channel recording software included
- Integrated omni-directional microphone
- VSoIP compatible

Model	ZN-D2024
Image Sensor	1/4" VGA CMOS
Networking	Protocols TCP/IP, HTTP, SMTP, FTP, DDNS, UPnP, Telnet, NTP, DNS, DHCP, and RTSP Physical 10/100 baseT Fast Ethernet auto negotiation
Video	MPEG4 (simple profile) for streaming video, JPEG for still image
Lens	Varifocal, 2.0mm - 4.0mm, F1.4 - F1.8
Audio	Supports GSM-AMR, AAC compression and audio mute Bit rate: CSM-AMR: 4.75k ~ 12.2k ACC: 16k ~ 128k
Resolution	Up to 30/25 frames @ 160x120, Up to 30/25 frames @ 320x240, Up to 30/25 frames @ 640x480 (increasing band widths)
Power	12V DC (802.af Compliant) 27W
Dimensions	144mm(D) x 110mm(H)

Ordering Codes:

ZN-D2024 High Resolution Colour IP Network Dome Camera

ZN-C9000

Colour IP Camera

IP Media & Transmission

- High quality MPEG4
- VSolP recording
- Dual streaming
- Multicast and internet streaming
- Alarm inputs and relay output
- Fast Ethernet interface
- Serial data port



Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

The ZN-C9000 CS mount IP colour camera offers DVD level quality MPEG4 video, at up to 30 images per second, over IP networks. It provides dual MPEG4 streaming for two independently configurable MPEG4 video streams.

The ZN-C9000 is compact enough to fit in a standard external housing and the IP camera supports any CS mount manual or auto iris lens.

A USB interface for future expansion of functions is fitted at the rear of the camera.

The ZN-R9000 video decoder can be used to display the video signal from the ZN-C9000 camera directly to a CCTV monitor or DVR.

Perfect Partners



VSolP Management
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ZN-T9000
Page 75

Model	ZN C9000
Image Sensor	1/3" CCD
Networking	1x Ethernet RJ45 10/100baseT, auto, half full duplex
Data	1xRS232/RS485 bi-directional
Video Resolution	480TVL
Lens	C/CS mount
Alarm Input/Output	4 x In, 1 x Out
Power	12V DC 800mA
Dimensions	98mm(W) x 33mm(H) x 100mm(D) (excluding lens)

Ordering Codes:

ZN-C9000 Colour IP Camera

MEGAPIXEL CAMERA RANGE

HDTV Megapixel Cameras



- HDTV resolution images
- Low light
- Up to 5 megapixel resolution
- Electronic pan tilt zoom
- Day or night (C-MP3P range)
- 2 Sensors (C-MP3P range)
- No moving mechanical parts
- Fully programmable
- Power over Ethernet (PoE)
- VSoIP compatible

Perfect Partners



VSoIP Management
Software
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VSoIP Video Wall
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The C-MP5P and C-MP3P HD surveillance cameras with up to 5 megapixel resolution can stream video up to 2560x1600 resolutions.

These IP based cameras provide zoomed areas to give greater detail. This also enables forensic examination of areas of the image that were unrecognisable in the past. The high definition images are up to 5 times the resolution of an analogue CCTV camera.

The C-MP3P HD megapixel day/night camera produces high quality in the day or night: 3 megapixels in the day and, when the light level falls, a 1.3 megapixel mono sensor takes over. Switching between the two sensors is performed automatically.

The camera can be powered over the network or locally via a separate 12V DC power supply.

Model	C-MP5P	C-MP3P
Sensor	1/2" 5Mpixel	1/2" 3Mpixel colour 1.3Mpixel mono
Lens	C/CS mount	2x C/CS mount
Networking	1x Ethernet RJ45 100baseT	1x Ethernet RJ45 100baseT
Max Bandwidth	55Mbps	55Mbps
Compression	Motion JPEG20 levels (quality)	Motion JPEG20 levels (quality)
Power Supply	12V DV or PoE	12V DV or PoE
Power consumption	45Watt (max)	45 Watt (max)
Dimensions	125mm(L) x 76mm(W) x 64mm(H)	125mm(L) x 76mm(W) x 64mm(H)
Weight	450g	450g

Ordering Codes:

- C-MP5P 5 Megapixel Colour HD Networkable IP Camera
C-MP3P 3 Megapixel Colour and Mono HD Networkable IP Camera

ZN-PT304 SERIES

Network Pan / Tilt Cameras

IP Media & Transmission

- Stylish and compact design
- Flexible pan and tilt range
- Integrated microphone
- Scaleable bandwidth
- Wireless LAN function (ZN-PT304WL)
- Digital zoom x 4
- VSoIP integration



Model	ZN-PT304	ZN-PT304WL
TV System	PAL/NTSC	PAL/NTSC
Lens	4mm	4mm
Resolution	Up to 30/25 frames @ 160x120, Up to 30/25 frames @ 320x240, Up to 30/25 frames @ 640x480 (increasing bandwidths)	Up to 30/25 frames @ 160x120, Up to 30/25 frames @ 320x240, Up to 30/25 frames @ 640x480 (increasing bandwidths)
Minimum Illumination	1.0 lux @ f2 50IRE	1.0 lux @ f2 50IRE
Video	MPEG4 (simple profile) for streaming video, JPEG for still image	MPEG4 (simple profile) for streaming video, JPEG for still image
Input Voltage/Consumption	12V DC	12V DC
Pan & Tilt	Pan Range 0-350° (-175° - +175°) Tilt Range 0 - 125° (-35° - +90°) Auto Pan & Auto Patrol Modes	Pan Range 0-350° (-175° - +175°) Tilt Range 0 - 125° (-35° - +90°) Auto Pan & Auto Patrol Modes
Network	UPnP, TCP/IP, SMTP, RTSP/RTP/RTCP, HTTP, FTP, Telnet, NTP, DNS, DDNS, DHCP, PPPoE 10 baseT/100 baseT fast Ethernet auto negotiation, Wireless (ZN-PT304WL model)	UPnP, TCP/IP, SMTP, RTSP/RTP/RTCP, HTTP, FTP, Telnet, NTP, DNS, DDNS, DHCP, PPPoE 10 baseT/100 baseT fast Ethernet auto negotiation, Wireless (ZN-PT304WL model)
Weight	259g	271g

Ordering Codes:

- ZN-PT304 IP Colour camera with PTZ function
ZN-PT304WL IP Colour camera with PTZ function, wireless

ZV-S306P

IP Network Video Server

- Stylish and compact design
- Real-time MPEG4 compression with VGA resolution
- Simultaneous dual-streaming
- Supports RS485 for PTZ and dome cameras
- Digital I/O for sensor and alarm
- Audio
- VSoIP integration



Model	ZV-S306P
TV System	PAL/NTSC
Frame Rate	25fps (PAL) 30fps(NTSC)
Resolution	640(H) x 480(V)
Video	MPEG4 Video Dual Streaming over UDP, TCP or HTTP & MJPEG over HTTP
Input Voltage/Consumption	12V DC 4W
Audio	GSM-AMR Compression, 4.75kbps – 12kbps
I/O	1 x Digital Alarm Input 1 x Relay Output
Network	UPnP, TCP/IP, SMTP, RTSP/RTP/RTCP, HTTP, FTP, NTP, DNS, DDNS, DHCP, PPPoE. Supports Multicasting, 10/100 fast Ethernet auto negotiation
Weight	450g

Ordering Codes:

- ZV-S306P IP Network Video Server

C-NV4VS

4 Channel MPEG4 Network Video Server

Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories



- 4 channel encoder
- MPEG4 video compression
- Web viewer support
- 120GB HDD for VSoIP recorder
- Up to 30 frames per second per input
- Up to 4CIF / D1 resolution
- 100Mbps network interface
- On-board HTTP configuration
- VSoIP compatible

Perfect Partners



VSoIP Management
Software
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ZC-Y12 Camera
Page 17

The C-NV4VS MPEG4 networked video server allows 4 standard CCTV cameras to be connected to an IP network and to become part of a VSoIP installation. Combined with on-board recording, integrated web server and sleek fanless design, the C-NV4VS becomes an integral part of a distributed security management system. Using MPEG4 video compression with fully compatible RTSP/RTP streaming standards provides a wide choice of client software including the new VSoIP Security Management suite. Providing up to 30 fps and at resolutions up to 4CIF ensures the highest possible picture quality for each connected camera.

Model	C-NV4VS
TV System	PAL/NTSC
Frame Rate	25fps (PAL) 30fps(NTSC)
Resolution	QCIF, CIF, 4CIF
Video	MPEG4
Storage	120GB HDD
Power	12V DC
Network	UPnP, TCP/IP, SMTP, RTSP/RTP/RTCP, HTTP, FTP, NTP, DNS, DDNS, DHCP. Supports Multicasting, 10/100 fast Ethernet auto negotiation
External Dimensions	50(H) x 275(W) x 172(D)

Ordering Codes:

C-NV4VS MPEG4 Network Video Server

ZN-T9000

Network Video Recorder

IP Media & Transmission

- High quality MPEG4
- VSolP recording
- Dual streaming
- Multicast and internet streaming
- Alarm inputs and relay output
- Fast Ethernet interface
- Serial data port



The ZN-T9000 is a high quality MPEG4 network video encoder primarily designed to encode video and control data for transmission over an IP network. With its dual encoding in MPEG4 format at up to 30fps, advanced motion detection and alarm contacts, it is ideally suited for adapting standard CCTV cameras into IP or remote access devices.

The ZN-T9000 can be easily fitted into small housings and the use of existing networks means integration with CCTV systems or local networks can be achieved quickly and easily. VSolP recording is also available, along with a fast Ethernet interface and serial data port.

Perfect Partners



ZC-Y12 Camera
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C-AllView
Page 33

Model	ZN-T9000
TV System	PAL/NTSC
Video Inputs	1 x BNC
Data Interface	1 x RS232/RS422/RS485 Bi-directional, ST500
Alarm Inputs	4 x push-in terminals (non-isolated closing contact), max. trip resistance 10 Ohm
Relay Outputs	1 x Push-in terminal 30V p-p, 2A
Input Voltage/Consumption	12V DC approx 800mA
External Dimensions	100mm(D) x 98mm(W) x 33mm(H)
Weight	400g

Ordering Codes:

ZN T9000 Single Channel Video Encoder
ZN T9000A Single Channel Video Encoder with Audio



- High quality MPEG4
- Decode to standard CCTV monitor
- Multicast and internet streaming
- Alarm connections
- Fast Ethernet interface
- Serial data port

The ZN-R9000 is a high quality network video decoder designed to decode video and control data from the ZN-T9000 transmission over an IP network. With its decoding in MPEG4 format at up to 30fps to a standard CCTV monitor or DVR, auto connect on alarm contacts or motion detection, the ZN-R9000 is ideally suited for adapting standard CCTV cameras for point-to-point connection via an IP network.

Use of existing networks means quick and easy integration with CCTV systems or local networks. Adding VSoIP software or using the built-in web server makes the ZN-R9000 the perfect choice for most applications.

Perfect Partners



ZM-L217(H)
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ZR-DHC1630NP
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Model	ZN-R9000
TV System	PAL/NTSC
Video Output	1 x BNC
Data Interface	1 x RS232/RS422/RS485 Bi-directional, ST500
Alarm Inputs	4 x push-in terminals (non-isolated closing contact), max. trip resistance 10 Ohm
Relay Outputs	1 x Push-in terminal 30V p-p, 2A
Input Voltage/Consumption	12V DC approx 800mA
External Dimensions	100mm(D) x 98mm(W) x 33mm(H)
Weight	400g

Ordering Codes:

ZN R9000	Single Channel Video Decoder
ZN R9000A	Single Channel Video Decoder with Audio
ZN RMK	Rack Mount Kit (5 Units in 1HU)

- Analogue video decoding
- S-Video PAL or NTSC interface
- VGA monitor interface
- Matrix display up to 2x2, 3x3, 4x4, 5x5, custom
- Salvo tours
- Event-driven switching
- Third-party integration
- VSolP compatible

VSolP Video Wall supports IP video streams from different camera and encoder manufacturers, offering high performance decoding of motion - JPEG, MPEG2, MPEG4, MxPEG and JPEG-2000.

VSolP Video Wall also offers a wide range of display options. A simple-to-use web GUI allows easy switching from single view through to 5x5 view. Other viewing layouts and options include the use of spot monitor for alarms or playback view. Possibly the most flexible viewing option is a motion-event driven mode where video feeds are displayed, hidden and the layout managed automatically, ensuring operators are presented with surveillance worth viewing at all times.

VSolP Video Wall can be programmed to carry out salvo tours of cameras. This programmed salvo can then be repeated indefinitely. Single camera viewing or salvo viewing can also be activated by events generated from alarm inputs and by video motion detection events of IP cameras and encoders.



Perfect Partners



VSolP Management
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ZR-DHC1630NP
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C-NV-MPD

Multi-platform Decoder

The C-NV-MPD Multi-platform Decoder converts an SVHS analogue or VGA monitor into a multi-manufacturer IP video display device with video wall features. This allows monitors to be connected to an IP system and become part of a VSolP installation. Controlled either directly from the VSolP Manager, alarms or via the onboard HTTP configuration pages, it makes adding analogue or VGA output from supported IP video products a breeze. Supporting all common video codecs such as MJPEG, MPEG4 and MPEG2 among others whilst also supporting all top manufacturers such as Ganz, makes the control room future-proof against changes in IP camera manufacturer.

Compatible Cameras
Ganz MPEG4 Encoder Range
Ganz DVR Range
Ganz IP Camera Range
Axis Any MJPEG or MPEG4 IP Camera or Server
Bosch (VCS) VIP1000, VIP10, VIP-X1, VIP-X2, Dinion IP, VIP1600
Dedicated Micros DV-IP Server, DV-IP ATM, DS Server
iMPath Networks I4100 Series MPEG2 Devices
IQInvision IQeye Range of IP Cameras
Mobotix All HTTP JPEG/MxPEG IP Cameras
Verint S1500, s1600 MPEG4 Range
Telindus 4100, 4210, 4400, 4410, 4420 MPEG4 Range
ACTi MPEG4 IP Camera and IP Server Range
CoVi CVQ IP Camera Range
Baxall ICE MPEG4 IP Camera

Ordering Codes:

C-NVW25 VSolP Video Wall Management System
C-NV-MPD Multi Platform Decoder & Display unit





- Uses existing coaxial video cable (75ohm)
- Simple to install – no set-up required
- Works with any IP device
- Full data rate up to 250 metres
- PoE available
- Multiple IP devices on one existing cable
- Full 100baseT duplex Ethernet connection
- Dynamic assignment of bandwidth
- Single and multi-channel units
- No MAC or IP address

Perfect Partners



Megapixel
Colour Camera
Page 72



ZN-T9000
Page 75

Coaxi.net & Coaxi.net4 are layer 1 devices that turn any standard video coaxial cable into a high speed 100baseT Ethernet connection.

This allows the existing video coaxial cable to be turned into a transmission device for IP network traffic, saving installation costs on new cabling. Coaxi.net and Coaxi.net4 are ideal for all IP and megapixel cameras as they support high data rates.

The units are installed in pairs and require no set-up. The single channel units also work in conjunction with the Coaxi.net4 for greater flexibility.

The Coaxi.net4 is more than just a media converter. It is also a 4 port switch and offers PoE to all connected IP devices as well as sending the Ethernet signals down the existing coaxial cable. PoE units are available as an option on standard Coaxi.net units.

Model	COAXI.NET	COAXI.NET4
Analogue	BNC connection 75ohm RG59 or similar 250m full bandwidth	BNC connection 75ohm RG59 or similar 250m full bandwidth
Ethernet	Single RJ45 connection	4 ports RJ45 connections
POE	optional	4 Class 2 (6.5W)
Input Voltage	12V DC/24V AC	12V DC/24V AC
Power Consumption	2.4W	2W without POE devices attached. Max 42W with full load of 30W PoE devices attached
Dimensions (excluding connection)	104(L)54(W)23(H)mm	91(L)110(W)33(H)mm

Ordering Codes:

CN-HWC	Pair of Coaxi.net Media Converters
Coaxi.net4	4 Port Coaxi.net Media Converter (Single Device)
CVPSU12	12V DC PSU
CN-VQ24	Power Supply for Coaxi.net4 24V AC

CN WMB	Wall Mount Unit for Single Coaxi.net
CN 1U	Rack Mount Unit for Coaxi.net (max8)
CN RMPSU	Rack Mount PSU Unit

- Accurate universal atomic clock reference
- Supports all NTP compatible devices
- Ideal for CCTV and DVR applications
- Ideal for closed or secure networks
- Simple set-up – one IP address
- Automatic GPS lock and time sync
- Extremely compact design
- Indoor location (antenna on a window)
- Integral watchdog for long-term reliable operation
- Robust, wall mounting, self-contained unit
- Very low power use



Lenses

Cameras

Hardware

Time.Net is an atomic clock reference system for all NTP-compatible devices, such as servers, PCs, DVRs and access control systems. Time.net offers a solution to the problem of ensuring that all such equipment is accurately synchronised to International Coordinated Time.

Time.net integrates the GPS receiver and master NTP clock server into a single device which can be directly connected to the network. Once connected to your network Time.net will automatically maintain an accurate time for all your DVR or NTP compatible devices on your network.

Time.net uses GPS (Global Positioning System), which ensures the accuracy of your system.

It is extremely compact, can be wall-mounted, uses very little power and comes complete with a 3m antenna lead.

Perfect Partners



ZR-DHC1630NP
Page 54



ZR-DHD1621
Page 55

Control
Room

IP Media &
Transmission

Radar
Detection

ANPR

Accessories

Model	TIME.NET
Ethernet	10/100baseT RG45
Time Source	GPS Satellite
Accuracy	Ethernet NTP \pm 100ms overall GPS source \pm 0.1_s
Protocol	NTP Stratum 1 Time Server
Antenna	3m lead included
Power	6V DC PSU Included
Power Consumption	0.9W
Dimensions	67mm(W) x92mm(D) x 33mm(H)

Ordering Codes:

CN-VTN GPS Master NTP Time Server Complete with PSU and Antenna



- Specially designed for CCTV applications
- PoE output
- Suitable for any IP camera or network device
- Up to 4 IP cameras or IP devices on each unit
- No special set-up required
- 12V DC/24V AC input voltage
- Megapixel camera compatible
- Dedicated upstream port (5th port)
- Wall or desk mounted
- Compact and robust

Perfect Partners



ZN-C9000
Page 71



CMP5P
Page 72

CamSwitch.net is a 5 port 100baseT network switch specially designed for CCTV applications. The 4 input ports are for connection of any IP cameras, IP codecs or megapixel cameras. These ports also offer PoE out of each port. The 5th port is used for network connection and the upstreaming of the connected camera information.

The CamSwitch.net has been designed with the traditional CCTV in mind. The four cameras or device ports (input ports) are fitted to one side of the switch and the output port is fitted to the other. Four devices in a group can be conveniently connected through this PoE switch, simplifying the Ethernet and power connection.

The CamSwitch.net is a compact, rugged and robust unit that can be wall or desk mounted.

Model	CAMSWITCH.NET
Ethernet	5x RJ45 connection ports. 4x IP cameras or devices 5th port for network connection upstream connection
POE	4 input ports for IP Camera or IP Devices Class 2
Input Voltage	12-24V DC or 24-32V AC
Power Consumption	2W without PoE devices attached. Max 42W with full load of 30W PoE devices attached
Dimensions	108mm(W) x 92mm(D) x33mm(H)

Ordering Codes:

CN-V5CS 5 port Network Switch
CN-VQ24 24Vac power supply unit

REACH, OUTREACH & OUTSOURCE

Ethernet & PoE Distance Extender

IP Media & Transmission

- Extends Ethernet cable installations to beyond 100 metres
- Forwards power over Ethernet (PoE) to remote devices
- No power cable installation required
- Fully transparent – no restriction to network traffic
- Simple to install – works instantly
- Robust, compact and wall-mountable
- Supports all network devices



OutReach.net is a LAN extender and will extend traditional network cables from the 100 m maximum distance. The unit acts as a repeater and will extend cable distance by 100 m with each unit connected to a maximum of 1000 m.

OutReach.net requires no separate power source as it takes the required power from the network directly. It is ideal for IP cameras or codecs installed remotely. The units can also forward PoE along the extended distance (depending on power requirements).

OutSource.net is an in-line device that will insert PoE on to an existing system. It is thus ideal for PoE IP cameras and other PoE IP products.

OutSource.net upgrades a standard switch Ethernet output to PoE.

Perfect Partners



ZN-T9000
Page 75



ZN-D2024
Page 70

Model	OUTREACH.NET				OUTSOURCE.NET
Ethernet	2x RJ45 ports 100baseT full duplex				2x RJ45 ports 100baseT full duplex
Input Voltage	Not required				100-240V AC, 47-63Hz
Power Consumption	2.2W max, (1W typical)				2.2W max, (1W typical)
PoE: in	IEEE 802.3af Class 0 (max 12.95W)				
	IEEE 802.3af Class 1 or 2 (max 6.49W)				
: out	IEEE 802.3af Class 3 (max 12.95 W) using OUTSOURCE				
Distance	3	2	1	No POE	
PoE device class	12.95W	6.49W	3.84W	n/a	
Device power up to:	n/a	300m	400m	700m	
Range with POE switch:	300m	500m	700m	1000m	Note: These distances are typical results when used with 24AWG Cat 5, Cat 5e or Cat 6 cable
Range with OUTSOURCE:					
Dimensions	100mm(L) x 37mm(W) x 22mm(H)				140mm(L) x 65mm(W) x 36mm(H)

Ordering Codes:

CN-VOR OutReach.net LAN extender
CN-VOS OutSource.net PoE injector



- Immunity to noise
- Long distances
- Easy installation
- Multiple video signals in the same bundle
- RS-422/RS-485 in the same bundle
- 12V DC/24V AC in the same bundle
- Lower cabling costs and space saving
- Better interference immunity

Perfect Partners



D4000 Dome
Page 22



ZM-CR114NP CRT
Monitor

UTP (Unbalanced Twisted Pair) is a way of transmitting CCTV video signals on ordinary Cat 5 type data cables using Baluns (Balanced Unbalanced).

The C-TP range of twisted pair transmission products is designed for CCTV signal transmission over unshielded twisted pair wire (Cat 5 network cable). This type of transmission is an alternative solution to the traditional coaxial and fibre based.

Most new commercial (and often residential) building developments install Cat 5 data 'backbones' as standard for building management systems. These can be integrated TCP/IP or standard protocol networks. If there is spare unused cabling available, UTP CCTV systems can be installed without the need for additional costly extra wiring. Cat 5 cable is significantly cheaper than traditional RG59 and can fit far more conductors into a smaller space.

Model	C-TP101VHL	C-TP104V	C-TP116V	C-TP101VPK
Transceiver	Yes	Yes	Yes	Yes
Video (BNC)	1	4	16	1
Cat 5 Connection	screwed terminal	4 screwed terminal	16 screwed terminal	screwed terminal
Power over Cat 5	No	No	No	Yes
Max Distance Cat 5	Passive to Passive 600m Passive to Active 1km	Passive to Passive 600m Passive to Active 1km	Passive to Passive 600m Passive to Active 1km	50m max distance using 12V DC

Ordering Codes:

C-TP101VHL Single Channel Video Transceiver with Extra Interference Rejection

C-TP101VPK Single Channel Video Transceiver with Power

C-TP104V 4 Channel Passive Video Transceiver

C-TP116V 16 Channel Video Transceiver Hub

- Immunity to noise
- Long distances
- Easy installation
- Multiple video signals in the same bundle
- RS-422/RS-485 in the same bundle
- 12V DC/24V AC in the same bundle
- Lower cabling costs and space saving

UTP (unbalanced twisted pair) is a way of transmitting CCTV video signals on ordinary low-cost CAT 5 type data cables using Baluns (Balanced Unbalanced).

C-TP twisted pair transmission products are designed for CCTV signal transmission over unshielded twisted pair wire (Cat 5 network cable). This type of transmission is an alternative solution to the traditional coaxial and fibre based systems and benefits include fast, easy installation, saving time and money, substantial savings on the cost of the cable itself, plus superb quality on long-range transmission.

Most new commercial (and often residential) building developments install Cat 5 data 'backbones' as standard for building management systems. These can be integrated TCP/IP or standard protocol networks. If there is spare unused cabling available, UTP CCTV systems can be installed without the need for additional costly extra wiring. Cat 5 cable is significantly cheaper than traditional RG59 and can fit far more conductors into a smaller space.



Perfect Partners



Z-PT Dome
Page 38



ZC-Y12 Series Cameras
Page 17

Model	C-TPA101VT	C-TPA101VR	C-TPA104VR	C-TPA108VR	C-TPA116VR
TX or RX	TX	RX	RX	RX	RX
Video (BNC)	1	1	5	8	9
Cat 5 Connection	Screwed terminal	Screwed terminal	4 Screwed terminal	6 Screwed terminal	16 Screwed terminal
Max distance Cat 5	Active to Active 1.5km	Passive to Active 1km	Passive to Active 1km	Passive to Active 1km	Passive to Active 1km
Power supply (not supplied)	12V DC	12V DC	12V DC	12V DC	12V DC

Ordering Codes:

C-TPA108VR	8 Channel Active Receiver Hub with Distribution Amp and Surge Protected
C-TPA116VR	16 Channel Active Receiver Hub with Distribution Amp and Surge Protected
C-TPA101VT	Single Channel Active Transmitter with Distribution Amp and Surge Protected
C-TPA101VR	Single Channel Active Receiver with Distribution Amp and Surge Protected
C-TPA104VR	4 Channel Active Receiver with Distribution Amp and Surge Protected



- 24 hour a day detection
- Field-proven technology
- Built-in self-test, condition monitoring and calibration
- Low maintenance
- 360° coverage
- High detection range of up to 800m for vehicles and 500m for people
- Effective in all weather and light conditions
- Operates over water
- Control up to 5PTZ cameras like C-AllView
- Pre-alarm zones
- Audible warnings



Radar View Detection System is the ideal choice for large area perimeter detection, where you need early warning intruder detection and tracking of people and vehicles as they enter the protected area. It gives intruder detection of ranges up to 500 meters or more from the sensor. An audible and visual alarm can be raised to alert security staff, avoiding the need to monitor screens constantly. The radar will independently control up to 5 separate PTZ cameras like the C-Allview to display and track multiple threats simultaneously.

The radar scans 360° and will perform in all weathers. It is not affected by snow fog rain, hail or poor lighting conditions. It gives true 24 hours a day detection and when used in conjunction with the C-AllView thermal imaging unit provides full site protection 24 hours a day. Unlike other space detection systems, Radar View is very effective for early warning intruder detection over expanses of water.

Model	W200	W500	W800H
Max range (radius)	200m	500m	800m
Range resolution	0.25m	0.25m	0.25m
Detect man walking	10-200	10-500	0-700m
Detect man running	10-130m	10-450m	0-600m
Detection area	360°	360°	360°
Scan speed	1.0Hz	1.0Hz	1.0Hz
Supply Voltage	24Vnominal (12-36)	24Vnominal (12-36)	24Vnominal (12-36)
Power Consumption	22W	22W	22W
IP Rating	IP66	IP66	IP66

Ordering Codes:

W200	Radar detection head Man detection 200m (c/w NS3-CT software only)
W500	Radar detection head Man detection 500m(c/w NS3-CT software only)
W800H	Radar detection head Man detection 800m (c/w NS3-CT software only)

NS3-CT software requires a dedicated PC

Why Radar View?

Radar View delivers more capability at better value than alternative solutions.

The system will automatically control CCTV cameras like C-AllView to display and follow intruders using full pan, tilt and zoom functionality.

It is effective in all weather and all lighting conditions.

It has longer range than alternative solutions. It continuously tracks intruders, displaying where they are, which direction they are moving in and at what speed.

It does not rely on physical barriers or electronic perimeters.

It does not rely on manned monitoring of CCTV images.

It creates vital time to react effectively to intrusion or attack.

It automatically controls cameras and DVRs to record only incident footage.



Lenses



Cameras

PC Rack Mount

Hardware

Where to use Radar View

VIP Houses, Estates and Heritage Properties

It is a low environmental impact system that avoids erecting physical barriers or digging up the lawn to lay cables. It is unobtrusive, offering constant scanning without constant monitoring of CCTV images.

Power Stations & Reservoirs

It does not interfere with other electronic equipment and it works over water where other technologies fail.

Airports & Landing Strips

The ultimate detection range capability of 800m radius from the sensor in 360° makes it ideal for airfield surveillance. Multiple radars can be networked back to a single base station and one display.

Railway Marshalling Yards and Infrastructure

The excellent range resolution of the sensor and the ability to set detection zones mean the system can be used to detect intruders in cluttered environments such as railway yards.

Oil Refineries, Depots & Pipelines

The system can be powered by solar panel or wind turbine and configured with wireless coms. It can be deployed in flat featureless land as found in the Middle East around critical infrastructure.

Ports, Harbours and Jetties

The sensor offers good detection in rain and fog and across water where other early warning detectors are ineffective.



Control
Room



IP Media &
Transmission

Screen shots

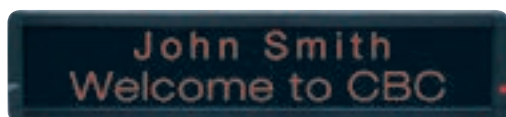
Radar
Detection

ANPR

Accessories



- All-in-one ANPR system solution
- Up to 2 ANPR cameras
- 10m or 20m distance options on ANPR camera
- Day or night identification
- Complete package with easy-to-install system components
- Can be used to control barriers and display messages
- No software licence fees
- Additional overview cameras can be added



For illustration only



Barrier Relay Control

Used for vehicle identification, the RSC-Kit is a package of easy-to-install components that gives users a complete automatic number plate recognition (ANPR) system for up to two ANPR cameras and six overview cameras.

An ANPR system provides number plate capture, storage and process of data for applications such as automatic barrier control in car parks, toll booths and access to restricted sites. It can be used in any application where vehicle management is important, such as at petrol stations, hotels and leisure complexes.

Model	RSC-KIT10	RSC-KIT20	RSC-KIT10-2	RSC-KIT20-2
Number of cameras	One lane capture ANPR camera and up to three overview cameras	One lane capture ANPR camera and up to three overview cameras	Two lane capture ANPR cameras and up to six overview cameras	Two lane capture ANPR cameras and up to six overview cameras
Distance	10m	20m	10m	20m
Video Standard	PAL	PAL	PAL	PAL
Equipment included with the kit:	Computer Mini PC with pre-installed ANPR software, keyboard & mouse, video capture card & dongle	Computer Mini PC with pre-installed ANPR software, keyboard & mouse, video capture card & dongle	Computer Mini PC with pre-installed ANPR software, keyboard & mouse, video capture card & dongle	Computer Mini PC with pre-installed ANPR software, keyboard & mouse, video capture card & dongle
ANPR Camera (page 87)	RST 10	RST20	2x RST 10	2x RST 20
Monitor	LCD	LCD	LCD	LCD
Specification	Please contact the sales office for further information	Please contact the sales office for further information	Please contact the sales office for further information	Please contact the sales office for further information

Ordering Codes:

RSC-Kit10 ANPR Kit 10m Camera
RSC-Kit20 ANPR Kit 20m Camera

RSC-Kit10/2 ANPR Kit 2x 10m Camera
RSC-Kit20/2 ANPR Kit 2x 20m Camera

RCS-Relay Barrier Control relay

RCS Display External LED display

ROADSTAR RST SERIES

Roadstar ANPR Cameras

ANPR

- Pre-assembled and expertly set up
- Easy to install
- 10m, 20m, 30m and 40m distances
- High resolution
- 24-hour round-the-clock operation
- LED dark IR illumination
- 3 years' warranty



The Ganz Roadstar camera captures car number plate images from moving vehicles in both day and night conditions. The use of dark IR lights located beneath the camera housing illuminate the registration plate without distracting the driver.

The Roadstar camera comprises camera, filters, lens, brackets and an IR illuminator. Assembly, wiring and testing are performed before packing/customer shipment. This automatic number plate recognition (ANPR) camera overcomes all problems associated with number plate capture – speed, reflectivity, sunlight, car headlights and depth of field – regardless of ambient lighting conditions.

The assembly can be wall- or pole-mounted in car parks, hotels, petrol stations, highways, etc.

MODEL	RST-10	RST-20	RST-30	RST-40
Capture Distance	10m	20m	30m	40m
Resolution	570TVL	570TVL	570TVL	570TVL
Wavelength	850nm	850nm	850nm	850nm
Environmental	IP66	IP66	IP66	IP66
Construction & finish	Diecast aluminium in black RAL9005	Diecast aluminium in black RAL9005	Diecast aluminium in black RAL9005	Diecast aluminium in black RAL9005
LED Life	Average 10 years	Average 10 years	Average 10 years	Average 10 years
Fixing	Wall bracket (included)	Wall bracket (included)	Wall bracket (included)	Wall bracket (included)
Voltage input (PSU included)	230V AC	230V AC	230V AC	230V AC
Power Consumption	150W	150W	150W	150W
Weight	3.57kg	3.57kg	3.57kg	3.57kg

Ordering Codes:

RST-10	10m ANPR Camera
RST-20	20m ANPR Camera
RST-30	30m ANPR Camera
RST-40	40m ANPR Camera

Lenses

Cameras

Hardware

Control Room

IP Media & Transmission

Radar Detection

ANPR

Accessories

FILTER SET-UP KIT



A filter kit is essential during the installation and initial set-up of any CCTV system where it is necessary to ensure that the equipment is adjusted to the optimum settings for the varying light conditions to which the camera will be subjected. By using certain optical filters mounted on the front of the lens, it is possible to assist the set-up procedure by simulating different operating conditions. For example, IR pass and ND3 for IR set-up on black and white cameras.

Ordering Codes:

FSK Filter Set-up Kit - includes Polarising, ND1, ND3, IR cut, IR pass

VM300

Viewfinder



The Viewfinder is commonly used to determine which focal length of lens should be used to give the correct angle of view in a particular situation. It does this by altering the scene through the eye-piece and relating it to a particular format focal length, which can be easily read off the scales on the barrel. The scales relate to 1/4", 1/3", 1/2", 2/3" and 1". Simple to use, it helps to eliminate problems by matching the field of view to the size of lens required.

Ordering Codes:

VM300 Viewfinder

LENS ACCESSORIES



Ordering Codes:

VM 100	Extension Tube Kit
VM 400	C/CS Mount Converter
DL00	Dummy lens
EX1.5C	C-Mount 1.5x Extender
EX2C	C-Mount 2x Extender
EX1.5CS	CS-Mount 1.5x Extender
EX2CS	CS-Mount 2x Extender

PSM-012P

4" Mono Portable Monitor

System
Accessories

- 4" B&W (PSM 012P) flat screen
- 12-hour battery charge time
- High resolution display
- Sturdy carry case (PSM 012P)

Ordering Codes:

PSM012	4" B&W Portable Service Monitor with Battery pack/Charger/Case
PSM012-BP	Spare Battery Pack for PSM012
PSM012-CH	Spare Battery Charger
PSM012-MC	Monitor and Leather Case Only
PSM012-M	Monitor Only
PSM012-LC	Leather-look Case Only



65(W) x 65(H) x 57(D) mm

Lenses

Cameras

Hardware

VD4.8P

Distribution Amplifier

- Programmable video distributor
- 4 inputs, 8 outputs
- Simple configuration
- Easy to install

Ordering Codes:

VD4.8P	Video Distribution Amp
--------	------------------------



270(W) x 40(H) x 180(D) mm

Control
Room

IP Media &
Transmission

VIDEO GROUND LOOP ISOLATOR & DVR BALUNS

The Video ground loop isolator and DVR Baluns are passive devices which reduce ground loop interference with CCTV signals and can easily be installed in a new system or added to an existing one. They are useful where a video signal is transmitted via cable between points with different ground potentials. Differences in ground potentials are typically caused by unbalanced power line loads.

When the video sync signals are not balanced, interference can sometimes distort and introduce noise into the video sync pulse. This can result in weak/distorted signals being input to the DVR and the DVR Balun can help to overcome this.

Ordering Codes:

C-GLI	High Performance Video Ground Loop Isolator
C-DVRB	DVR Balun



Radar
Detection

ANPR

Accessories

ACCESSORIES

Internal Camera Brackets



These camera brackets are ideal for internal use, designed to complement our YC and ZC camera range. Available in grey & white.

Ordering Codes:

ZP-B10(GW)	Internal Camera Bracket	White	Wall mount
ZP-B10(GR)	Internal Camera Bracket	Grey	Wall mount
ZP-B11(GW)	Internal Camera Bracket	White	Ceiling mount
ZP-B11(GR)	Internal Camera Bracket	Grey	Ceiling mount



A very light weight attractive silver bracket suitable for our YC, ZC and Spot camera range. The bracket is ceiling and wall mountable.

Ordering Codes:

ZP-B15(SLVR)	Internal Camera Bracket	Silver	Ceiling/Wall Mount
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A special grey bracket for use with the Spot Cam (ZC-L1210PHA) only. Cable management through the bracket helps to make a tidy installation. The bracket is ceiling and wall mountable.

Ordering Codes:

ZCA-LB101	Spot Cam Bracket	Grey	Ceiling/Wall Mount
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MODEL	ZP-B10	ZP-B11	ZP-B15 (SLVR)	ZCA-LB101ZP-B11
Length	180mm	115mm	101mm	64mm
Mount	Wall Mount	Ceiling Mount	Ceiling/Wall Mount	Ceiling/Wall Mount
Material	Plastic	Plastic	Aluminium	Plastic
Colour			Silver	Grey
Spherical Joint	Manually adjustable	Manually adjustable	Manually adjustable	Manually adjustable
Cable Routing	Internal	Internal	Internal	Internal
Fitting of the Camera	1/2", 1/3", 1/4"	1/2", 1/3", 1/4"	1/2", 1/3", 1/4"	1/4"
Camera range to complement	YC and ZC Cameras	YC and ZC Cameras	YC and ZC Cameras	ZC-L1000 range

LCD MONITOR BRACKETS

Vesa & Rack Mount



ZMA- CMVI



ZMA- WB3



ZMA- WM4

Ordering Codes:

ZMA-WB3	3 Knuckle, 75mm Vesa Wall Mount Bracket (Swifts left and right, total 180 degrees and the LCD monitor swivels up to 270 degrees)
ZMA-WM4	100/75mm Vesa Wall Mount Bracket
ZMA-RK17	17" Rack mount kit
ZMA-RK19	19" Rack mount kit
ZMA-RK8	8" Rack mount kit
ZMA-CMVI	Vesa Ceiling Mount Bracket

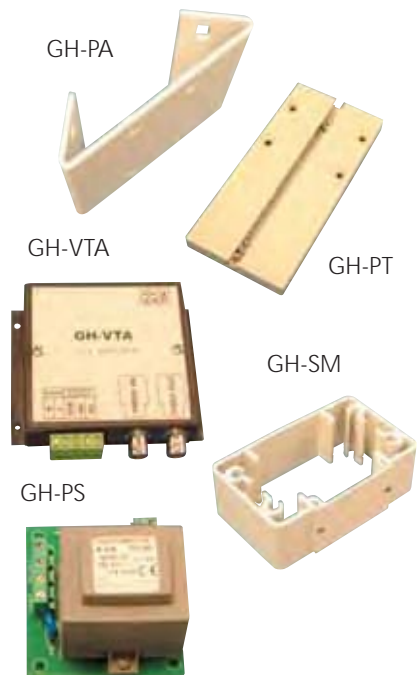
(CAUTION: When installing a monitor bracket its very important to pay strict attention to the dimensions and weight of the monitor. Monitors are heavy and can cause serious damage or personal injury should they have. CBC accepts no responsibility for damage or personal injury caused by incorrect or unsuitable installation of brackets or monitors or any resulting damage from unauthorised/inappropriate modifications).

GH & CH ACCESSORIES

Hardware

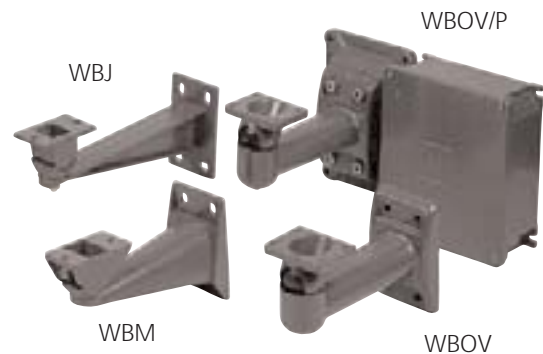
Ordering Codes:

GH-SM	Spacer/wall mount adaptor for side running of cables
GH-WM	Adjustable head and wall mount bracket
GH-PA	Pole mount adaptor
GH-PT	Pan & Tilt plate adaptor
GH-CM	Ceiling mount bracket with inner running of cables
GH-TK	Housing Tamper Kit for GH Housing
GH-VTA	Video Tamper Kit for GH Housing
GH-PS230/24	Internal power supply 230Vac/24Vac out
GH-PS230/12	Internal power supply 230Vac/12Vdc
GH-PS24/12	Internal power supply 24Vac/12Vdc out
GH-B12	Blower option for GH Housing powered at 12Vdc
GH-B24	Blower option for GH Housing powered at 24Vac



Ordering Codes:

WBOV	External housing bracket, Cable management (CHOV-II or CHEB-II)
WBOV/P	External housing bracket, Cable management with box (CHOV-II)
WBM	External housing bracket (CHEM)
WBJ	External housing bracket (CHEM, CHEB-II & CHOV-II)



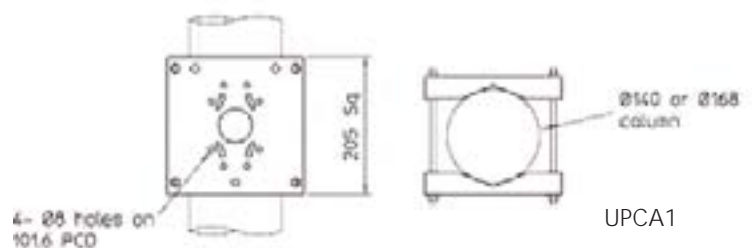
Ordering Codes:

CM4	Ceiling Mount for CHOV-II
CM5	Ceiling Mount for CHEM, CHEB-II and CHOV-II
CMP	Extension for CM4 and CM5



Ordering Codes:

UPCA1	Universal Pole Clamp Adaptor
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Lenses

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